

LIFE

TRAVEL IN THE U.S.S.R.

EXPERT EVIDENCE ON HORSE DOPING:
HOW CHEATERS STILL DO IT

PENCER TRACY:
25 YEARS AS
A FILM STAR

20 CENTS

JANUARY 31, 1955

See The New 1955 Kelvinator Automatic Washer

SEE HOW KELVINATOR GETS OUT STUBBORN DIRT THAT OTHER WASHERS MISS!



SEE SHAMPOO WASHING LOOSEN ALL GROUND-IN DIRT!

Kelvinator's exclusive "Shampoo Washing Action" starts with *half* a tub of water and the full amount of soap. These concentrated suds go to work while washer is filling . . . and loosen even the most stubborn, ground-in dirt and grime.

SEE X-CENTRIC AGITATION GENTLY REMOVE ALL DIRT!

It's Kelvinator's new, exclusive kind of agitator washing. No harsh jerking back and forth, but one smooth, continuous, massaging motion. Rubber-finned agitator imitates hand washing . . . clothes are gently lifted, flexed and turned, washing out ground-in dirt.

SEE OVERFLOW RINSING FLUSH ALL DIRT AWAY!

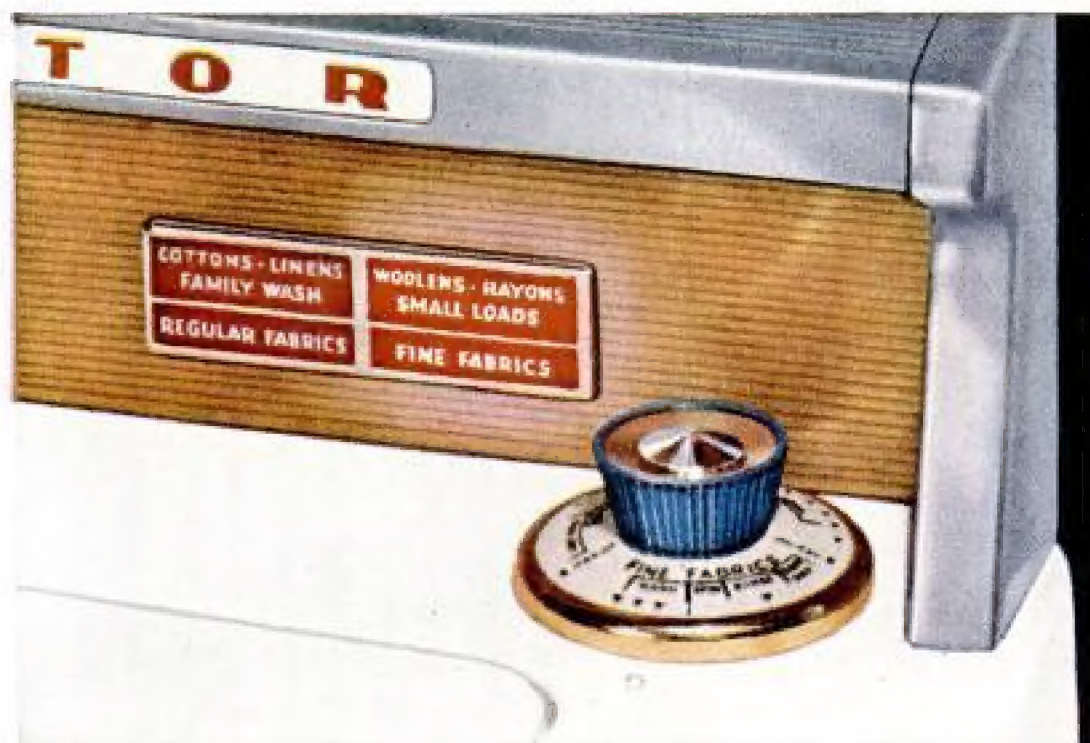
First a Deep-Power Rinse forces clear water through fabrics, removing all dirt and soap particles. Then Kelvinator's Overflow Rinse floats all dirt and soap over the top of the tub . . . not down through your clean clothes. Finally Kelvinator's Spin-Drying leaves clothes damp-dry, drip free, fluffy and soft. This superior spinning action removes 25% more water than the most efficient wringer.

SEE THE WASHER THAT IS ACTUALLY **2 AUTOMATIC WASHERS IN 1**



By JOAN ADAMS,
Kelvinator Institute for Better Living

Now, Kelvinator gives you 2 separate, completely automatic washing cycles—one for regular fabrics and heavy loads and one for fine fabrics and short loads. Now, with Kelvinator's "Fine Fabrics" Cycle you can wash your finest garments with the special care they need—*automatically!* The "Fine Fabrics" cycle completes its entire washing operation in just 17 minutes . . . and saves up to one-half the soap and hot water. What's more, with Kelvinator you can select the water temperature for different materials—dial either "Warm" or "Hot." See the new Kelvinator demonstrated at your dealer's.



SEE EXCLUSIVE "TEL-A-FABRIC" SIGNAL LIGHTS THAT SHOW WHICH WASHING CYCLE IS IN USE!

Both Kelvinator Washing Cycles—one for fine fabrics and one for regular washing—are controlled by one dial. And new "Tel-a-Fabric" signal lights show which cycle is in use. You simply can't make mistakes. Full-width fluorescent flood light in backguard provides ideal lighting for sorting of clothes.

P.S. THERE ARE NO GEARS TO GET OUT OF ORDER IN A KELVINATOR!

See Your **Kelvinator** Dealer

Division of American Motors Corporation, Detroit 32, Michigan

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B.F. Goodrich

**—the inventor of Tubeless Tires,
answers your questions about them**

Q. Just how is the Tubeless different from regular tires?

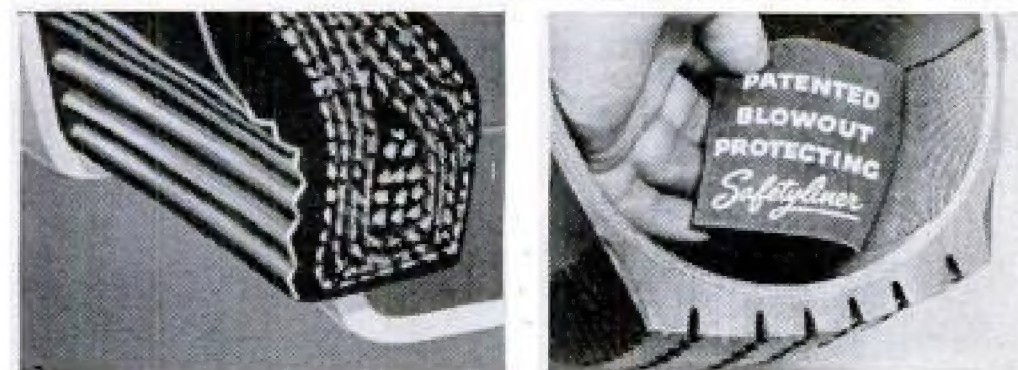
A. At a glance they look alike. The basic difference is that the Tubeless needs no inner tube to hold air.

Q. Aren't the new Tubeless Tires something like the old bicycle tires?

A. Far from it. The old bike tire was a complete ring of rubber, hollow on the inside, like a hose. The only opening was for the valve stem. The new Tubeless is open between the beads, the same as tires with tubes. The wheel rim seals off the air chamber.

Q. What holds the air in?

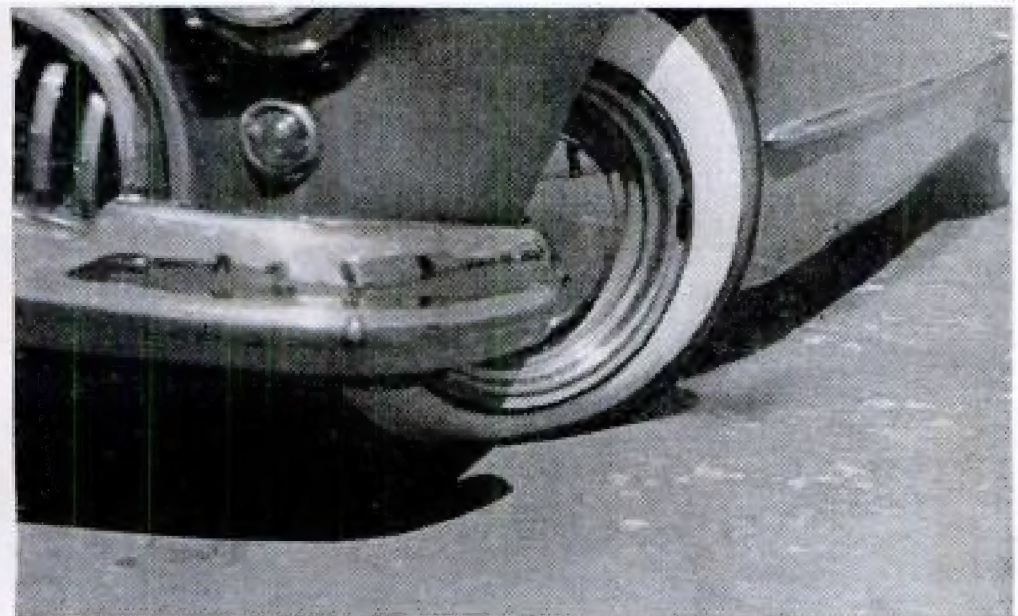
A. A series of concentric rubber ridges around the outer bead that press against the rim flange. Plus an



inner liner of special rubber, bonded to the tire, through which no air can seep.

Q. What holds the Tubeless on the rim?

A. The same thing that holds a regular tire and tube to the rim: air pressure. The inner tube has nothing



to do with it. A Tubeless Tire hugs the rim even more firmly than a regular tire, due to its rim-seal ridges.

Q. What are the Tubeless advantages?

A. By eliminating the inner tube, it eliminates the source of most tire troubles. It's the inner tube that is subject to puncture flats and blowouts.

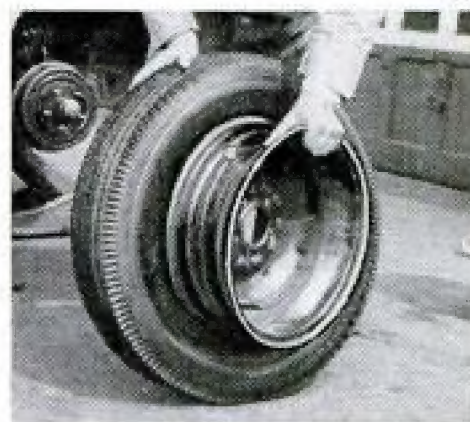
Q. Who invented Tubeless Tires?

A. B. F. Goodrich. Today, the whole tire industry is switching to Tubeless Tires, following the pioneering lead of B. F. Goodrich. A tire that would need no inner tube has always been the goal of tire and auto

men. But nobody before was able to make a tubeless hold air permanently and deliver full mileage in service. Finally, B. F. Goodrich, with new concepts of design and new man-made rubbers, solved the problem. In 1947, B. F. Goodrich announced the first successful Tubeless passenger car tire. Over 6 years ago it went on sale.

Q. Could I put Tubeless Tires on my present car?

A. You bet! They fit your standard wheels. One exception is wire wheels where the spoke holes aren't airtight. No extras to buy. They're easier to mount than regular tires when rims are in good condition.

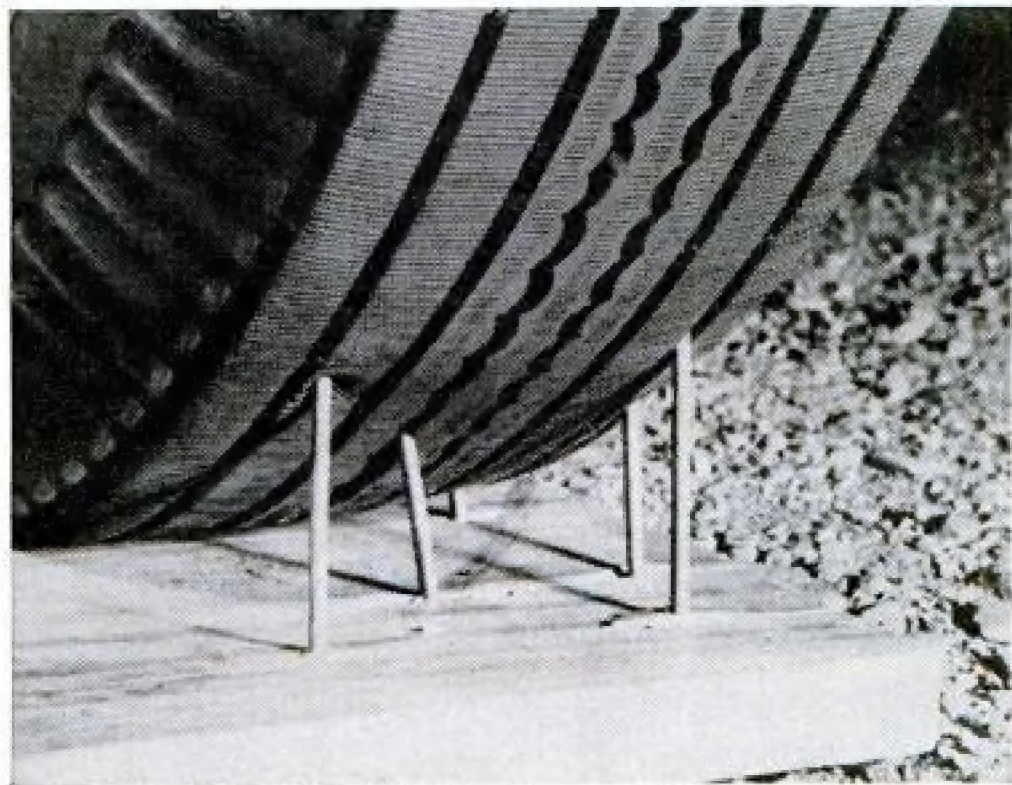


Q. Are all Tubeless Tires alike?

A. Not at all. For instance, B. F. Goodrich makes two types: 1) The SAFETYLINER, which costs no more than a regular tire-and-tube, and comes on new cars as standard equipment. You can buy it for your present car from your B. F. Goodrich retailer. 2) The LIFE-SAVER, that seals punctures permanently. It's the Tubeless with the *mostest!*

Q. Are Tubeless Tires "puncture proof"?

A. Any tire can be penetrated by a nail. If the tire has a tube, it quickly goes flat. If it's a B. F. Goodrich SAFETYLINER, the standard Tubeless Tire, loss of air is retarded. That's because the patented inner liner is not stretched, as a tube is, when the tire is inflated. It tends to grasp a puncturing object tightly and will hold air for a considerable time while the puncturing object remains in the tire. You have time to go to a service station, where small punctures can be repaired without even taking the tire from the wheel.



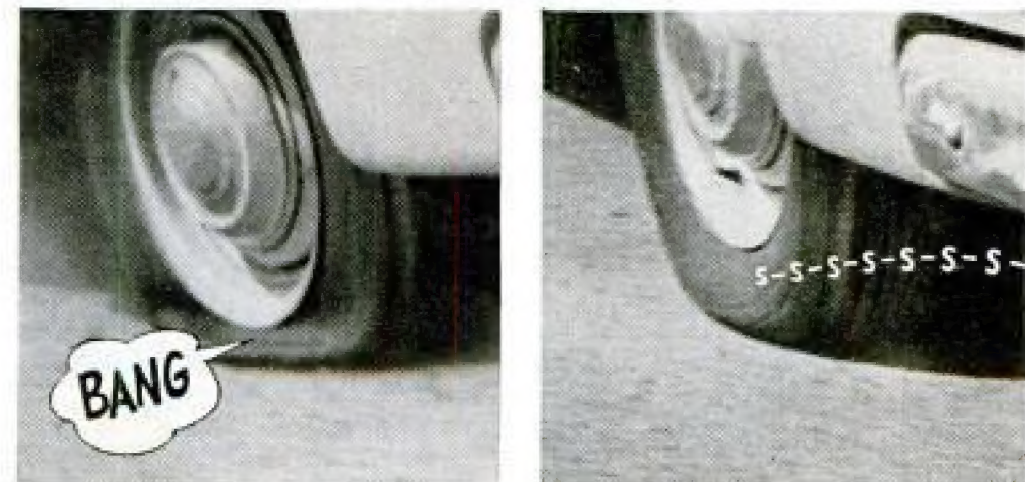
On the other hand, if it's a B. F. Goodrich LIFE-SAVER Tubeless Tire (above), no puncture repairs are

needed. LIFE-SAVER seals its own punctures with a patented sealant under the tread, nail in or out. The self-sealing repair is instant, automatic, permanent.

Q. What about blowouts?

A. Because a Tubeless Tire is its own air container, with no inner tube to be pinched if the tire is damaged, it doesn't blow out suddenly from a bruise break like a tire and tube.

If a bruise weakness develops in the tire, it takes the



form of a slow leak in the special liner which is a patented feature of the B. F. Goodrich Tubeless Tire. A dangerous bruise blowout becomes a safe s-s-slowout.

Q. Do Tubeless Tires last as long as tires with tubes?

A. Longer! On the average, B. F. Goodrich Tubeless Tires give about 10% more tread wear than tube-type tires of identical construction and design. That's because the Tubeless is lighter, more flexible.

Q. Can they be repaired? Recapped?

A. Any repair that can be made on a tube-type tire can be made on a B. F. Goodrich Tubeless Tire. And they can be recapped just as easily as regular tires. In general, it's easier to regular one, because there's no tube to fuss with.

Q. How much do they cost, and where can I get them?

A. Some Tubeless Tires are in the premium price class. But not the B. F. Goodrich SAFETYLINER. *It costs no more than a regular tire and tube!*

The B. F. Goodrich LIFE-SAVER, with patented puncture sealing and an extra manufacturing step that gives caterpillar-action skid protection, costs a little more but gives still more safety.

More than 5 million B. F. Goodrich Tubeless Tires have been sold. They have been proved in over 60 billion miles of service.

Only B. F. Goodrich has a six-year lead in use and proof. Only B. F. Goodrich has over 30,000 retailers Tubeless-trained to serve you.

Find the nearest retailer in the Yellow Pages under the listing "Tires—B. F. Goodrich." Low down payment puts a set on your car. Convenient terms.

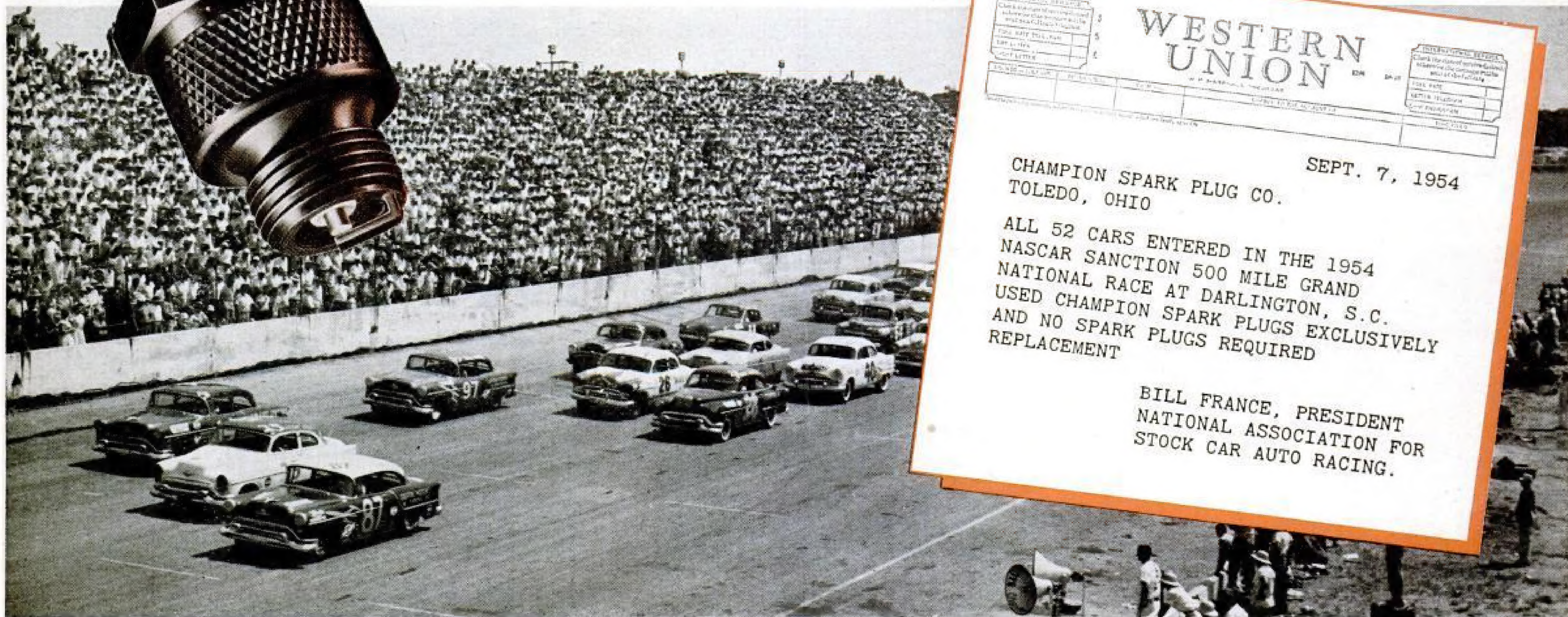
B. F. Goodrich, First in Rubber and First in Tubeless Tires



11 makes of passenger cars set Champion SPARK PLUG performance record!



All 52 entries in the Darlington, S. C. 500-Mile Grand National Stock Car Race used Champion Spark Plugs and not a single Champion was replaced during the entire race! The cars competing were: **Buick, Cadillac, Chrysler, Dodge, Ford, Hudson, Mercury, Nash, Oldsmobile, Plymouth, Studebaker.**



The all-Champion start at Darlington.

Big-time stock car racing is a brutal test of spark plugs . . . they must stand up and deliver under punishment equal to many thousands of miles of normal driving. Only the best spark plugs can meet this challenge.

That's why, when the chips are down and performance is the payoff, professional drivers turn to Champions regardless of the make of the car being driven.

You, too, want top performance from your car—performance you can't get with weak, inefficient spark plugs.

So, ask your Champion dealer to check your spark plugs. If they need replacing, have him install a set of full-firing 5-RIB Champions—specially engineered for today's modern gasoline. You'll notice the difference immediately in engine power and smoothness.

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

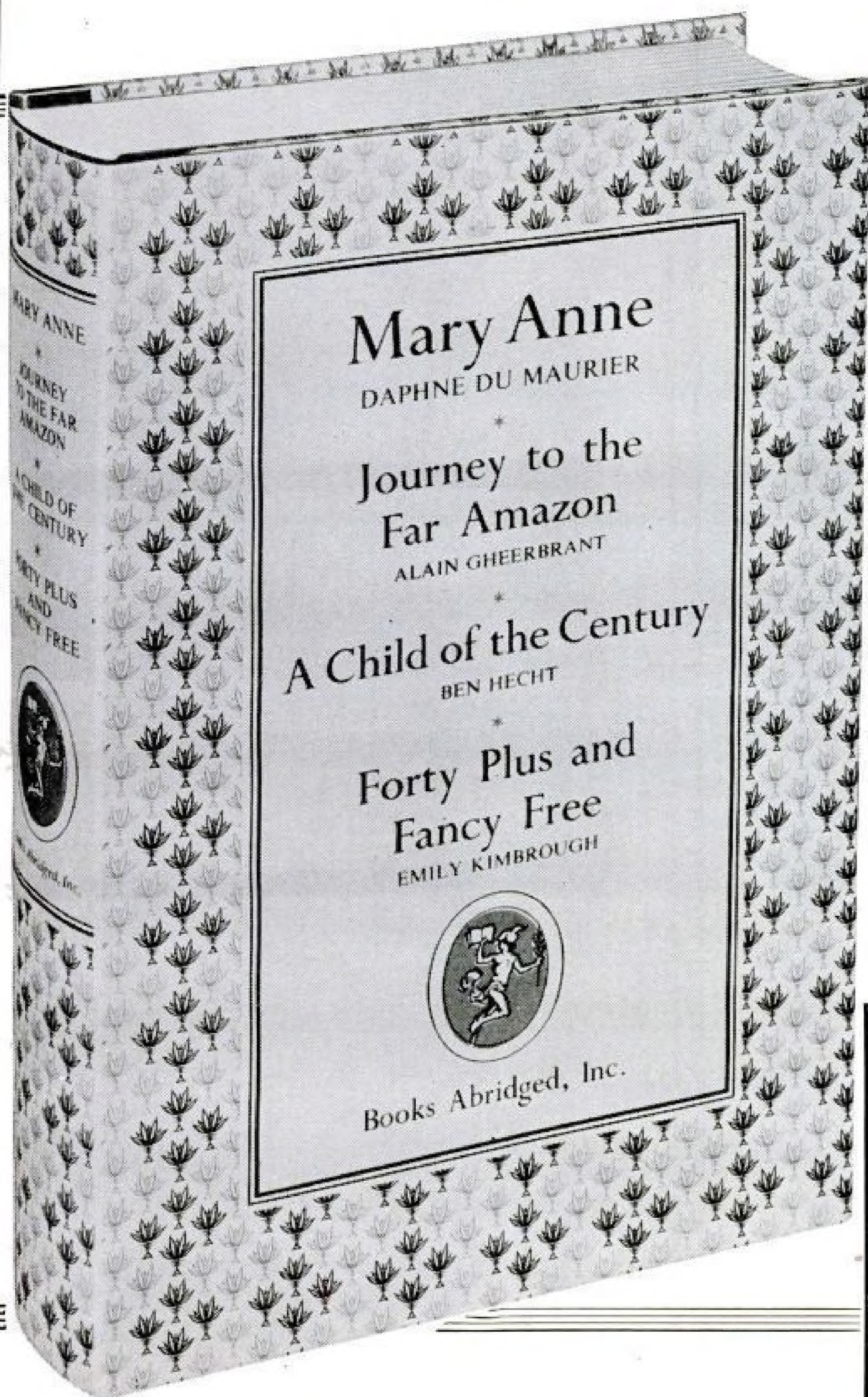
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DR. GEORGE GAL-
LUP recently re-
vealed in his polls that
an astonishingly high
percentage of the na-
tion's university grad-

uates *no longer reads books*. The reason is obvious: just because of their educational advantages, they usually occupy positions where they are busy, busy, busy always! As a result, many of them feel they are stagnating intellectually by missing the stimulation and broadening of interest one can get only from books. **BOOKS ABRIDGED** is a sensible service directed straight at the cause of the problem: *lack of time*. The books are always *in the authors' own words*; and they are shortened, never rewritten, by a staff of editors who have had more than fifteen years' experience in this field, and who have never failed to satisfy the authors themselves.

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BA7

SPEAKING OF PICTURES



Crazy clarinets and outsized trombones

make maniac music for Mr. Spike Jones

Spike Jones, one of the world's great musical clowns, has rare talent at leading his band through rowdy parodies of much-loved songs. But his genius really blossoms in his inventions. He is always creating new ones, like his octopus that plays an instrument with each tentacle and has to carry eight union cards. His old standbys, however, are the two shown here: the outsized clarinet, designed for musicians who can't keep a tune running through their heads, and the giant trombone used for making long-playing records. Last fall Jones completed a million miles of U.S. barnstorming. After resting and making what he calls an album of low-fidelity records, Jones starts out next week on his second million miles.



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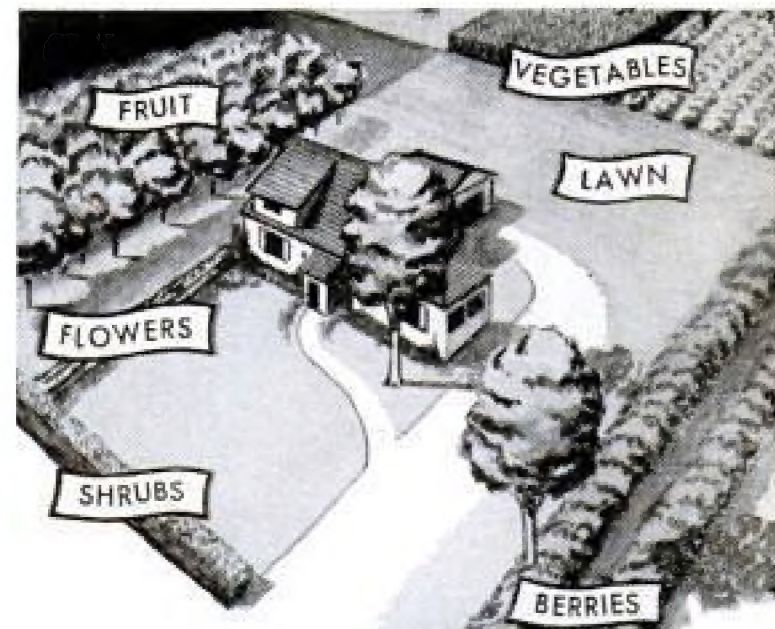
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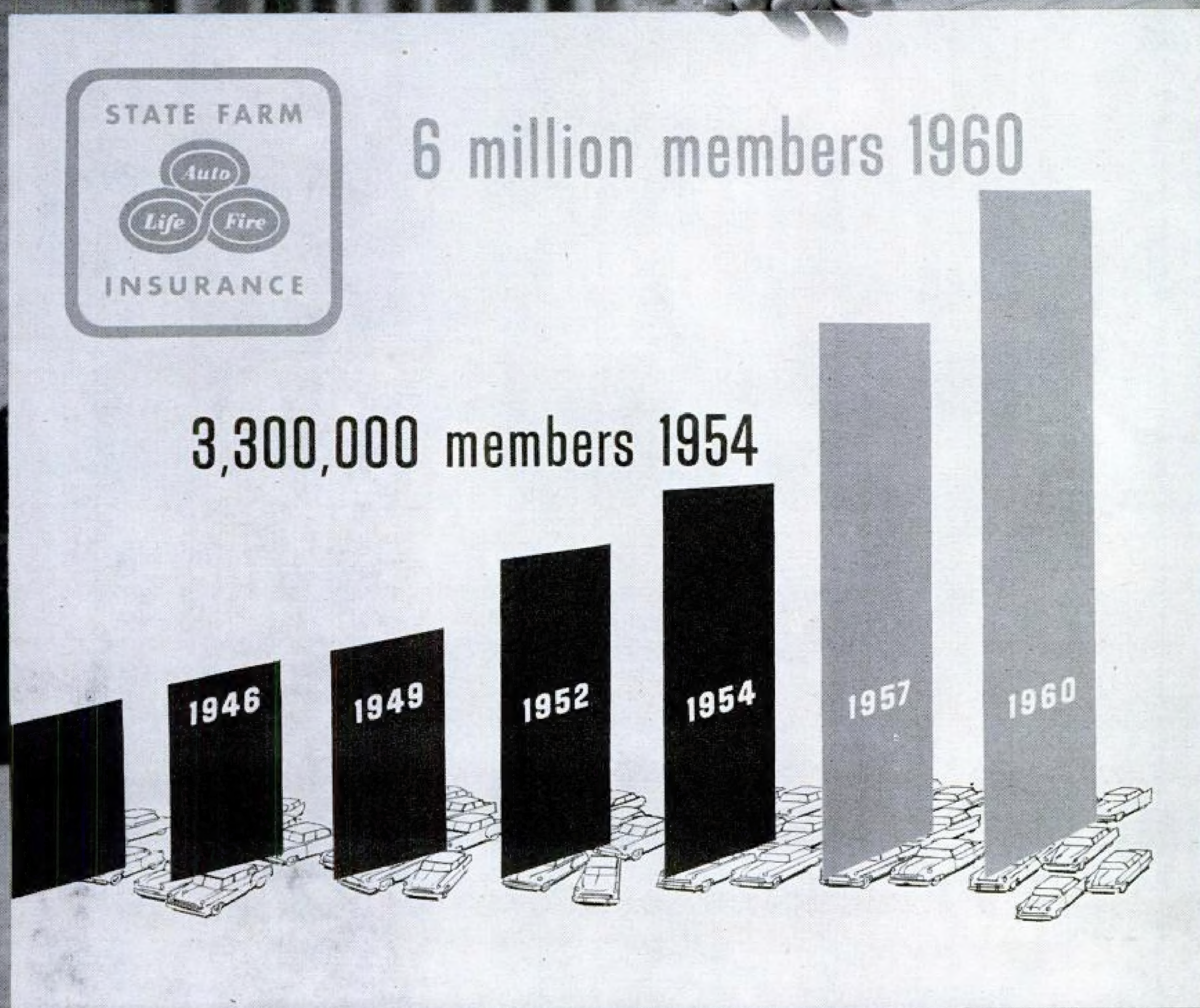
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SOARING MEMBERSHIP testifies to the popularity of State Farm Mutual auto insurance. Company has been first in field for 13 years. Projected

growth chart held by State Farm President Adlai H. Rust indicates present record-setting count of policyholders will increase to 6 million by 1960.

AMERICA'S MOST REMARKABLE INSURANCE COMPANY

**A 5-page report
on State Farm Mutual
and how it manages to sell
highest-quality auto insurance
at less-than-industry rates**

In America today, the most popular kind of automobile insurance is the kind offered by the State Farm Mutual Automobile Insurance Company of Bloomington, Illinois.

When this page was set in type, 3,300,000 car owners in the United States and Ontario, Canada—more by far than buy from any other company—were insuring with State Farm. And new members were signing up at the astounding rate of 2,600 a day. One every 33 seconds.

Why is State Farm insurance so popular? What does it offer that car owners want?

The answers are reported—factually and in considerable detail—on the next four pages. And it will pay readers to study the entire report carefully. Page by page.

For all companies which sell automobile insurance are *not* alike.

All of them do *not* charge the same rates.

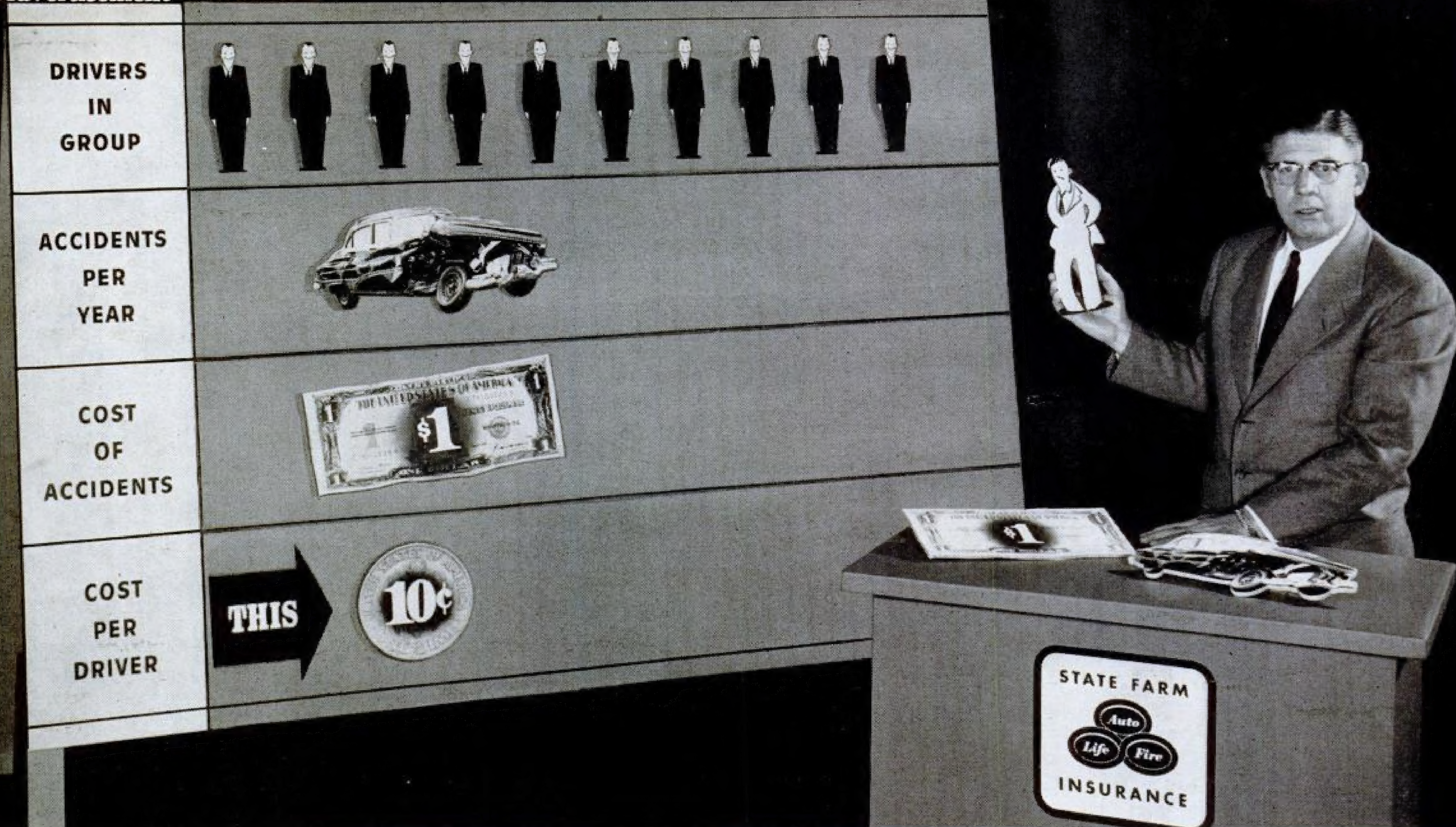
The best auto insurance is *not* necessarily the kind that costs the most money to buy.

AN ADVERTISEMENT OF STATE FARM MUTUAL CONTINUED ON NEXT PAGE

This One



2JRO-WJH-GR2L



THE PRINCIPLE OF STATE FARM'S "CAREFUL DRIVERS ONLY" PLAN is demonstrated here by the company's Chief Actuary, Harold E. Curry. His records show that State Farm members average, roughly, one accident involving liability every 10 years. He has placed the symbols of ten careful drivers and one accident on the board to show that, in any one year, the company knows ten of its members together will produce one such accident.

The dollar bill represents an imaginary cost for this accident. The "10¢" figure, therefore, represents the imaginary cost of insuring each of the ten members in

the group for one year. Such a cost—cost per policyholder—is the one used by insurance companies when they calculate rates.

In his hand, Mr. Curry holds the symbol of an irresponsible driver. Irresponsible drivers have more accidents, more costly accidents, than careful drivers. But for purposes of this demonstration, the irresponsible driver is assumed to average one accident involving liability per year. This one accident also costs one dollar. So this irresponsible driver costs ten times as much to insure as one of the careful drivers. By rights, he should be paying insurance rates that are ten times as high.

A UNIQUE "CAREFUL DRIVERS ONLY" PLAN

Why do more American car owners insure with State Farm Mutual than with any other company? Why are new policyholders joining at the rate of one every 33 seconds?

One obvious reason—an important one—is: to save money.

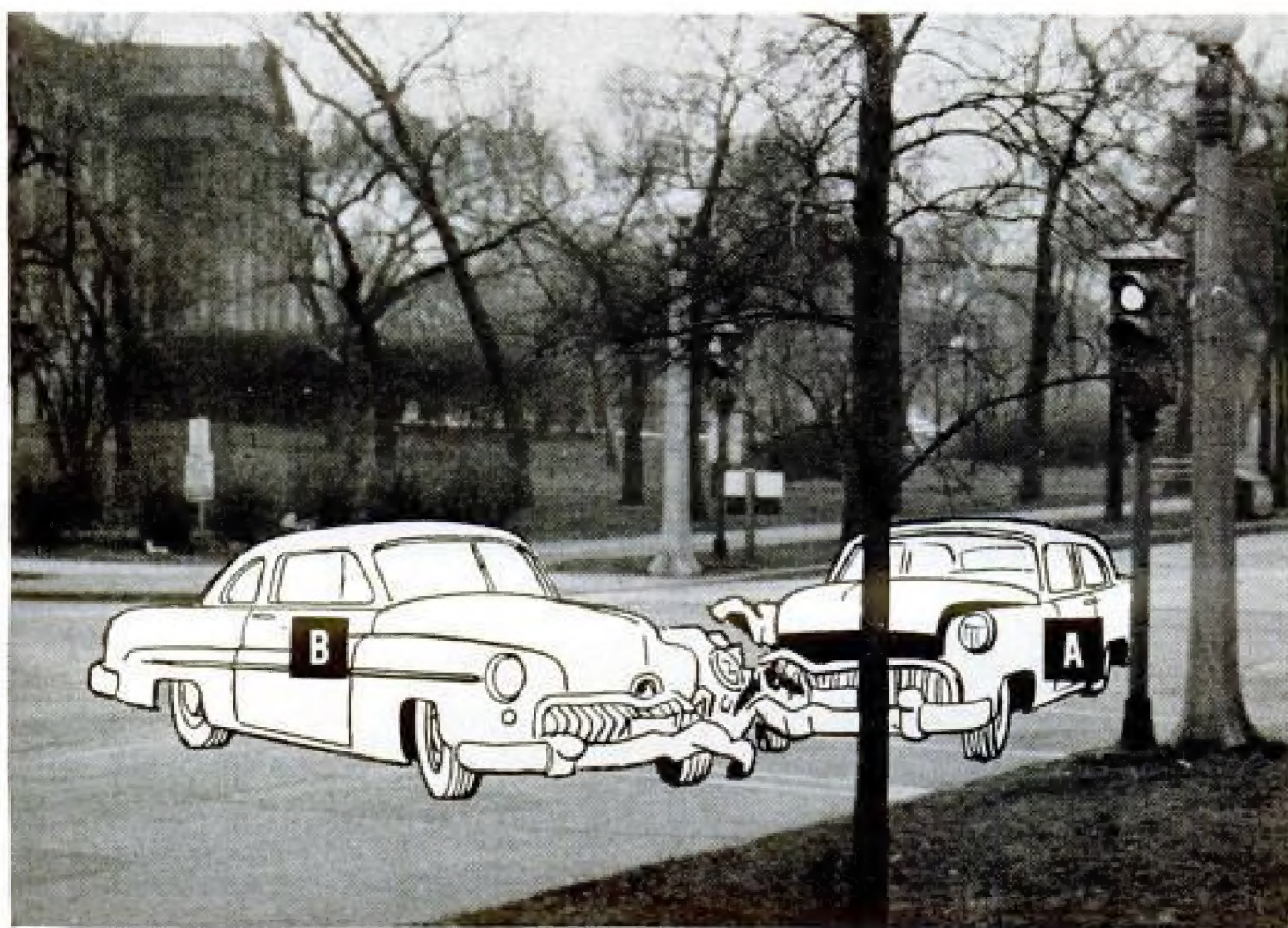
State Farm does not charge the "book" rates computed by national rating bureaus from the accident experience of other insurance companies.

It charges rates that are lower—10, 20, 30, even 40 percent lower.

And it figures these rates independently—from the accident record of State Farm policyholders only.

Any company could figure its own rates and come up with rates that are *different* from the industry's. State Farm does it and comes up with rates that are *lower*. Year after year after year.

The explanation is simple. From its very beginning, 33 years ago, State Farm has deliberately aimed to insure careful drivers *only*.



Accidents alone do not disqualify

Two questions frequently asked about State Farm are: "If you've had an accident, can you still get in?" "When you have an accident, can you still stay in?"

The answer to both questions is: "As a rule, yes. But it all depends on the accident."

State Farm knows even careful drivers sometimes have accidents. No one is turned down or cancelled just because he had an accident. Every driver's record is considered on its own merits.

For example, in the accident diagrammed, Motorist "A," out on a spree, speeds through a red light and strikes Motorist "B."

The accident would not disqualify "B." It could make "A" ineligible. Or result in his cancellation.

Fortunately, such cancellations do not happen very often. Less than one-half of one percent of all State Farm policyholders are asked to leave because of their loss records.



LETTING AN "IRRESPONSIBLE" IN WOULD RAISE INSURANCE COSTS.
In this photo, Mr. Curry demonstrates what happens to accident costs and insurance rates if the one irresponsible driver from the previous picture is added to the group of ten careful drivers.

First of all, his accident has to be added. *The bigger group of eleven drivers now can be expected to produce two accidents a year, instead of just one.* Next, the cost of this second accident has to be added. *Total accident costs double—from one dollar to two.* Finally, a new figure is required to indicate the cost of insuring each of the

eleven drivers in the group. *This cost increases from 10 cents per driver to 18 cents for each and every one of them—almost double!*

State Farm knows that when rates are based on the accident experience of careful drivers and irresponsible drivers together, each of the careful drivers winds up paying far more than his fair share. Each has to help pay for the irresponsible drivers' accidents. This is why State Farm deliberately aims to insure careful drivers only. And why it deliberately calculates its own rates, rather than use ordinary rates based on the accident experience of car owners insured in the other companies.

KEEPS STATE FARM INSURANCE LOW IN COST

At State Farm, drivers who are known to have bad accident records... drivers who are judged to be careless, reckless, or irresponsible... are politely but firmly turned down.

The pictures above indicate how this "Careful Drivers Only" plan holds down accident costs for the company... insurance rates for its more than three million policyholders.

Such a plan denies the benefit of low-cost insurance to a small minority

of drivers—the few who are responsible for far more than their share of automobile accidents.

But it makes considerable sense to the vast majority of car owners who have no difficulty in qualifying for "careful driver insurance."

Good drivers like the idea of getting some recognition, some reward for their ability behind the wheel.

And no one wants to pay more for auto insurance than he really has to.



"Operation Rate Cut"

State Farm rates are rechecked at regular intervals to make sure they are realistic and to make sure every member pays only his fair share. This job is done painstakingly—area by area, city by city. In 1954, as a result of such review, rates were revised in 28 states (see map). A few rates went up, but most went down. The net result: a saving of more than \$6 million a year for State Farm policyholders. This practice of revising rates to reflect changes in the accident experience of members is followed wherever state laws permit. Four states—Texas, Louisiana, Virginia, North Carolina—have special laws that do not permit independent rate making for automobile insurance. In these four states, State Farm passes savings back to its members in the manner permitted by law.

AN ADVERTISEMENT OF STATE FARM MUTUAL CONTINUED ON NEXT PAGE

Some of the other "different things" about State Farm that car owners like

Most good companies which sell auto insurance are organized either as stock companies or as mutual companies. Stock companies are owned by stockholders. Their profits belong to these stockholders.

State Farm is a mutual company. It is owned lock, stock, and barrel by its policyholders. Its policyholders are the only ones entitled to gains or savings that result from the company's operation.

Most stock companies charge "book" rates computed by national rating bureaus. Some well-known mutuals use "book" rates, too, and pass gains or savings back to members in the form of dividends.

State Farm calculates its own rates wherever state laws permit. It bases these rates on the actual cost of providing coverage, so that policyholders will receive their savings "in advance" and pay the lowest possible out-of-pocket cost. Four states—Texas, Louisiana, Virginia, North Carolina—have special laws that do not permit independent rate making for automobile insurance. In these four states, State Farm passes savings back to State Farm members in the manner permitted by law.

Most auto insurance rates are calculated to include "selling" costs; such as the local agent's commission. Car owners who pay such rates pay "selling" costs every time they pay a premium. Year after year.

State Farm does not include this "selling" cost when it calculates rates. Instead, it asks the car owner to pay this "selling" cost once and once only—in the form of a small membership fee the first time he takes out a coverage. State Farm pioneered the use of this lifetime membership fee plan for writing auto insurance and uses it everywhere except in Texas, Wisconsin, and Louisiana.

Most auto insurance companies depend on their local agents to write out all the policies . . . send out all the bills . . . collect all the payments.

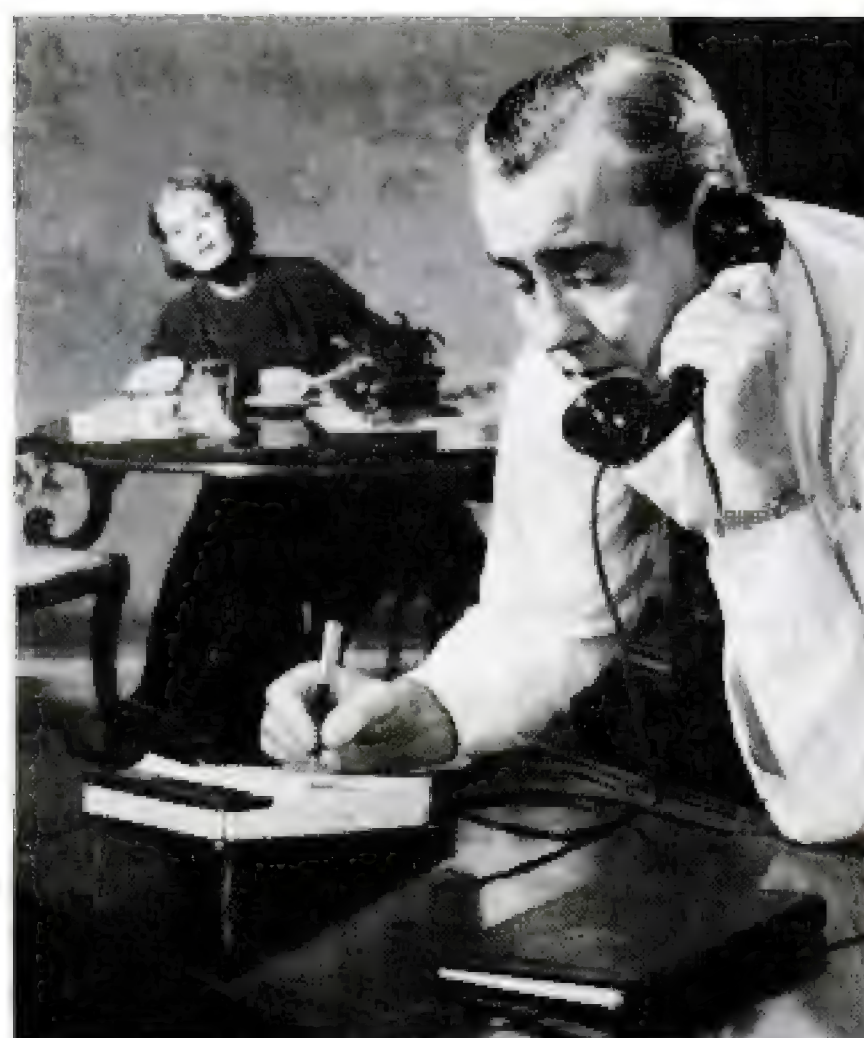
State Farm does all of its bookkeeping and billing in 11 strategically located regional offices. Ultra-modern business machines handle paper work on a high-volume, low-cost, "mass production" basis.

Most auto insurance companies issue a brand-new policy each year to each and every policyholder, and charge an annual premium.

State Farm issues a "continuous" policy, like a life insurance policy. As long as his car, address, and conditions of risk remain the same, a State Farm member keeps his original policy in force by simple renewal payments every 6 months. This cuts down paper work and gives members the added convenience of low semiannual payments at no extra cost.



STATE FARM USES EVERY CONCEIVABLE METHOD that will cut overhead costs and save money for its members. For example, sewing machines like this are used to stitch together all correspondence which applies to a policy. This method simplifies filing and eliminates the need for 3 million folders . . . 3 million paper clips . . . 1½ miles of file drawers.



NOVEMBER 8, 6:30 P. M. Policyholder Grayson phoned his State Farm agent, George Glenn, from the scene of the accident. Though he had just started dinner, Glenn told Grayson to stand by. Then he called State Farm claim adjuster Norman Mack and arranged to join him at the spot.



CLAIM SERVICE WITH A "PERSONAL TOUCH"

**The case of an actual member illustrates
another reason for State Farm's popularity**

All auto insurance companies are not alike in the way they are set up to pay claims and help policyholders in case of accidents.

State Farm has its own unique system, specially designed to keep this important service readily available, friendly, and "in the family."

Near home—where three-fourths of all accidents happen—the State Farm member simply calls his own agent. His own agent—and not an outsider—helps make the accident report . . . inspects damages . . . helps speed repairs . . . and lays the groundwork for prompt payment of every dollar due.

Away from home, the member can contact any agent and receive identical service. All 7,500 State Farm agents—wherever they may be—are pledged to treat him as a personal client.

Teamed with each agent are experts from State Farm's 1,000-man claims staff—the largest full-time salaried staff of adjusters in the automobile insurance industry. These experts handle all investigations, approve all settlements. They work only for State Farm and State Farm members.

The picture story above, based on an actual case selected from State Farm's claim file, illustrates how the system works. Names and locations have been changed to protect the right of privacy of all people involved.

State Farm agent George Glenn's report of the accident reads:

"At approximately 6:15 p.m., our policyholder, John Grayson, was driving south on 10th St. at 25 mph. Other car, driven by a Mr. McCormick, was going west very fast on Queen St. Though it was dark and street lights were lit, McCormick's headlights were not on as both cars approached intersection.

"To avoid a crash, our policyholder tried to turn right. But his left front fender struck McCormick's car. McCormick continued 200 feet after crash and struck tree. He was apparently driving at excessive speed. Injured: Mrs. Grayson, wife of policyholder, bruised elbow. McCormick, head injury, cuts, and scratches. McCormick has no auto insurance."



NOVEMBER 8, 7:00 P. M. Agent Glenn and Adjuster Mack arrived at the scene, learned that Mrs. Grayson and the other driver, McCormick, were receiving medical attention at a nearby hospital. While Glenn helped Grayson with the accident report, Mack made notes of the physical facts and evidence. He measured skidmarks, arranged for prints of pictures being taken at the scene by a newspaper photographer. Both men assured Grayson he had nothing to worry about because he carried full coverage with State Farm: liability, medical payments, comprehensive, collision, and emergency road service.



An invitation for interested readers:

Any agent listed under "State Farm Insurance" in the yellow classified pages of the local phone book will be glad to answer inquiries about the various advantages that go with membership in the famous "careful driver insurance company."

Any agent will be able to quote the exact dollar and cents cost, which naturally depends on where one lives and the kind of car one drives.

There is no obligation when a car owner requests this information.

State Farm Mutual automobile insurance is now available everywhere in the United States except New York, New Jersey, and the New England

states. It is also offered in Ontario, Canada.

Not every car owner is eligible for membership. But car owners who use good judgment, common sense, and courtesy behind the wheel will find it easy to qualify.

An inquiry is urged in the case of anyone about to buy a new or used car on time payments. In such cases, the purchase of insurance from the finance company is not compulsory. Nearly everywhere, State Farm co-operates with banks to make it possible for members to borrow money at local bank interest rates and at the same time secure the benefits of low-cost State Farm auto insurance.

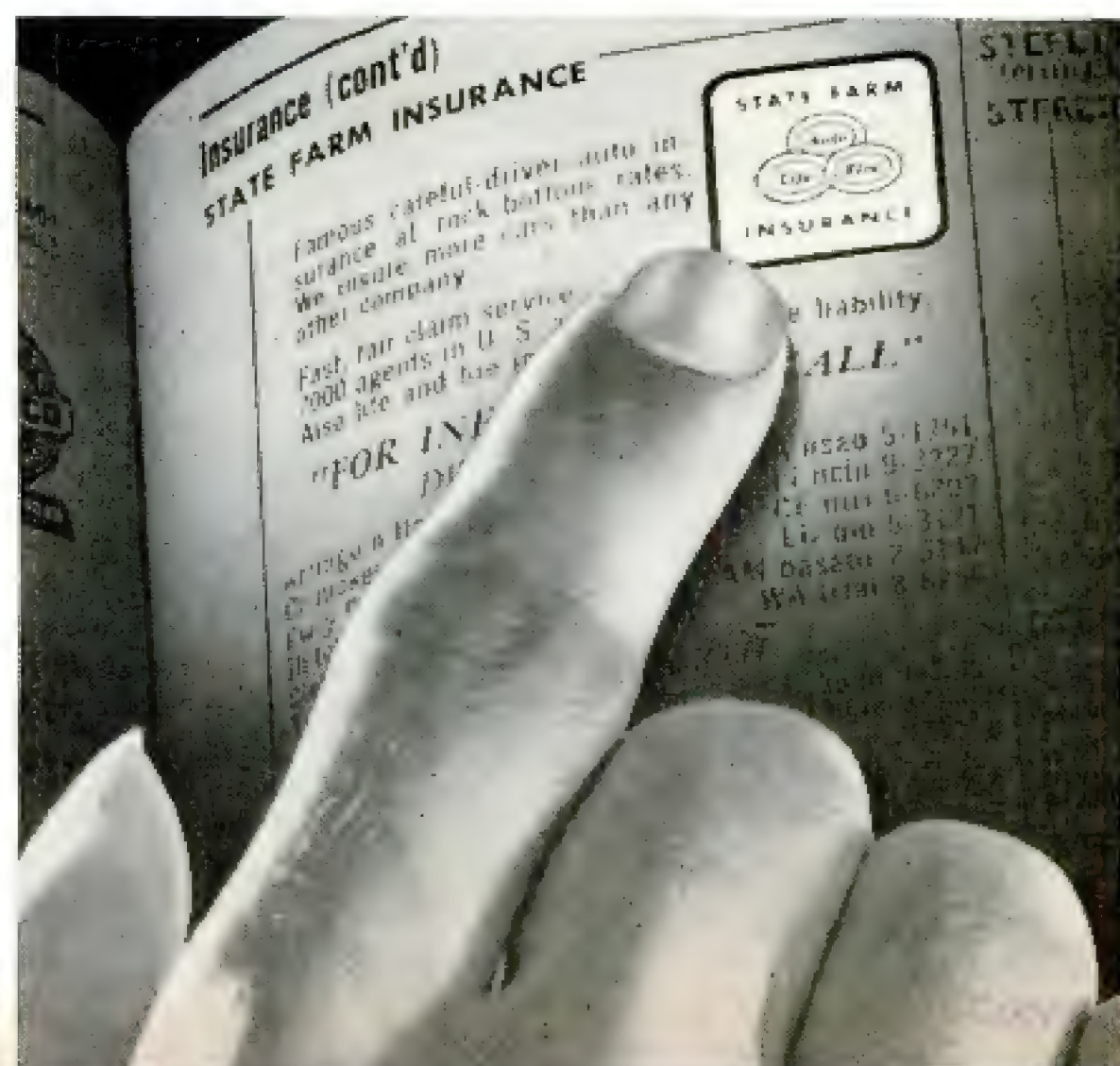


NOVEMBER 9, 10 A. M. Next morning, Agent Glenn inspected damages to Grayson's car, helped him obtain estimates and arrange for prompt repairs. Grayson's collision insurance was State Farm's famous "80% Collision"—under which the policyholder pays only 20 percent of collision costs up to \$250, with the company paying the rest. On November 16, repairs were completed, and Adjuster Mack wrote a check for \$141.98. Agent Glenn presented Grayson with this check as State Farm's share of the repair bill. Grayson's share: only \$35.50.



STARTING IMMEDIATELY, State Farm took the burden of all negotiations with McCormick off policyholder Grayson's shoulders. On the basis of the evidence, the company gave full support to Grayson's denial that he was responsible for the accident. When McCormick sued for damages, State Farm paid all defense costs, and State Farm attorneys defended policyholder Grayson in court. Damage photographs and skidmark measurements . . . the fact that McCormick travelled 200 feet after the crash . . . helped prove McCormick's negligence. McCormick lost his case, and in a counterclaim filed by State Farm lawyers, McCormick was held liable for the accident. If Grayson had been found liable, State Farm would have paid all court costs and any judgment up to the limit of his liability coverage.

FOR A FULL YEAR AFTER THE ACCIDENT, State Farm paid doctor and hospital bills under the terms of policyholder Grayson's Medical Payments Coverage. The first check was for \$20.00, to pay for the emergency treatment of Mrs. Grayson's bruised elbow. Ten months later, the elbow began to bother Mrs. Grayson again, and she had to have further medical attention. When the treatments were finished, Adjuster Mack approved payment, and Agent Glenn presented Grayson with an additional \$157.86 to cover the bill. At the time of the accident, Grayson was paying a semiannual State Farm premium of \$36.40. As a result of this one accident, he collected \$319.84, plus the services of Agent Glenn, Adjuster Mack, and State Farm's legal staff.



LETTERS TO THE EDITORS

THE GREAT GARBO

Sirs:

The most fascinating story LIFE has ever printed is "The Great Garbo" (LIFE, Jan. 10). If true greatness has touched the arts in our time, in no one person is the mysterious breath of divine beauty more apparent than in the magnificent artistry of Garbo.

PAUL M. VEST

Santa Monica, Calif.

Sirs:

By elision LIFE has perverted a quote from me about the days when Garbo, John Gilbert and I were friends. I did say "she tried to play the role as Jack wished" with the "two dozen or so" guests at the Gilbert Sunday open houses "but what was second nature to him was agony for her" at first. When she found that these attractive people wanted only to exchange sociability and friendship she did gradually relax and lose not some but most of her shyness. She was at this period the most intriguing woman I have ever seen. She entered heartily and effectively into all the games from tennis to murder mysteries. She clowned happily when clowning was in order. She waded sturdily into the deeper waters of some reasonably erudite discussion.

She made warm friends of a dozen in this group. The Fleek and I had many long quiet talks. We never finished one without my utter amazement. Few people knew of the extent or depth of her reading. Jack used to send to Europe for classic and current literature of all sources published in Swedish, the language in which she preferred to read because thus she would not miss nuances less apparent to her in English. . . .

In your first Garbo instalment there is much that is genuine and well told, in itself an achievement in the foggy field of Hollywood biography, but so far I feel that you seem to have drawn a blueprint rather than a portrait. The Fleek was no blueprint, and never will be.

CAREY WILSON

Los Angeles, Calif.

Sirs:

Her day is done! Her vogue of screen star is passé! Why are we expected to accept the aging woman at present for something she once was?

CARLTON LEARNARD

San Luis Obispo, Calif.

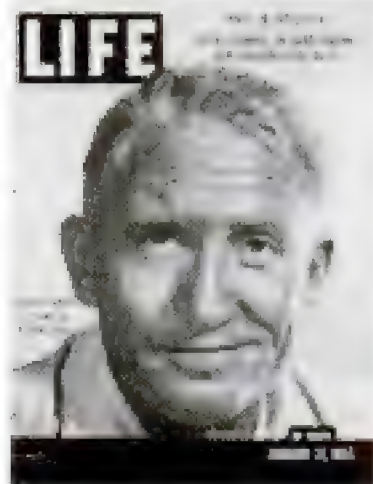
Sirs:

Your marvelous story about Garbo is beyond praise, a thing of fascination and delight. Everyone who cares says, "Isn't there one great role that would tempt her back, that would be right for her at her present age?" Yes, there is: Madame Ranevsky in *The Cherry Orchard*. With Marlon Brando opposite her, as the young peasant who loves her but crushes her, and Montgomery Clift as the tormented, threadbare student, what a film it could be! . . .

FITZROY DAVIS

Evanston, Ill.

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SPEAKING OF PICTURES

Sirs:

Regarding our "annual report" (Speaking of Pictures, LIFE, Jan. 10), we purchased 30 copies of LIFE—thereby forfeiting our annual dividend.

ROBERT J. MCBRIDE,
Vice President

Ready-Crete, Inc.
Milwaukee, Wis.

A NEW SHOW EVERY NIGHT

Sirs:

What about the High Mass said by Bishop White in the new Spokane Coliseum ("A New Show Every Night," LIFE, Jan. 10)? No mention of it.

MRS. J. W. LILWALL

Walla Walla, Wash.

● Ten thousand Catholics attended the dedication week Mass in the new Coliseum. The Coliseum has facilities for various religious services. A Jewish dedication service was held the same day as the Catholic service and afterward, when stagehands raised the curtains, LIFE's photographer got this shot (below) of two faiths on the same stage.—ED.



COLISEUM STAGE SET FOR SERVICES

SCIENTISTS OF U.S. SPEAK UP

Sirs:

Naturally I was pleased with your lead article ("Scientists of U.S. Speak Up," LIFE, Jan. 10), in part because of the excellent portrayal of a major meeting of scientists and in part because the two full-page photographs were from the University of California's Biochemistry and Virus Laboratory. One of the subjects, Lonberg-Holm, is a graduate student in biochemistry, and the other, Robley Williams, is a member of the Virus Laboratory. Incidentally, I was absent from LIFE's picture of my five colleagues [the Nobel Prize-winners] because of a prior commitment to present the John Scott award of \$1,000 to this same Dr. Williams.

WENDELL M. STANLEY
Director of Virus Laboratory

Berkeley, Calif.

Sirs:

The picture of Nellie Neal, placed adjacent to the cluster of Nobel Prize winners, will give the impression to the average reader that the A.A.A.S. has put the seal of respectful attention upon an assertion as demonstrably untrue as "words are seldom spelled as they are pronounced."

Words in the English language are actually pronounced in accordance with their spelling approximately 96% of the time.

Nonphonetically pronounced words occur with the greatest frequency in the one-syllable group. An actual, accurate count of 5,000 of the most frequently used one-syllable words shows that an average of only 28 words per thousand are not pronounced as they are spelled, while 972 are so pronounced! The number of words, moreover, pronounced as spelled, increases rapidly with the number of syllables. . . .

HELEN R. LOWE

Glens Falls, N.Y.

Sirs:

You mentioned that "A plant physiologist had found how to duplicate photosynthesis for the first time in a test tube." Please identify him for me.

RAYMOND H. KANSAS

New Orleans, La.

● Scientist Daniel I. Arnon (right) of the University of California has isolated chloroplasts, the agents of photosynthesis, from living cells of plants and succeeded in making them perform their function in the test tube. This enables scientists to make a more complete study of photosynthesis than before and may eventually lead to a process of artificial photosynthesis.—ED.



DR. ARNON

GOING, GOING, GONE

Sirs:

The self-portrait of Dick Ket ("Going, Going, Gone," LIFE, Jan. 10) is a revealing diagnostic giveaway of the type of "weak" heart with which he was afflicted. It was undoubtedly a congenital stenosis (narrowing) of the pulmonary artery, as indicated by a) the characteristic "club fingers" with watchglass-shaped nails, b) the dark discoloration of nose and ears, and c) protruding veins on the neck, caused by back pressure from the right chamber of the heart. This formerly fatal condition can be corrected by surgery (Blalock's operation).

W. RAAB, M.D.

Burlington, Vt.

RED FRAUD IN FAR EAST

Sirs:

In your series entitled "Red Fraud and Intrigue in Far East" written by Iuri A. Rastvorov (LIFE, Dec. 6, 1954), you state that the Kyodo News Agency had a correspondent in Moscow in 1945 who was blackmailed into the Soviet spy service.

Such a statement is patently false, since the Kyodo News Service did not come into existence until November of 1945 and did not place a correspondent in Moscow until the spring of 1952. We would appreciate it if you would advise your readers to this effect since we believe that our reputation has suffered by this error.

ICHIRO IWATATE
Chief of Washington Bureau
The Kyodo News Service

Washington, D.C.

● Mr. Iwatate is correct. Kyodo News Service did not have a representative in Moscow in 1945, so the correspondent referred to could not have been connected with Kyodo at that time.—ED.

LETTERS TO THE EDITORS

Sirs:

I would like to counteract the disgrace that Henry Hasbrouck has brought upon the city of Niagara Falls by his thoughtless statements about Cub Scouting (Letters to the Editors, LIFE, Jan. 10). Thank goodness I do not have any Mr. Hasbroucks in my own pack.

ROSS N. FRID
Cubmaster, Pack 25

Niagara Falls, N.Y.

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Cadillac



Maybe This Will Be The Year !

the handsome couple you see in the beautiful picture above have just made a very wise decision.

They have decided to get the facts about Cadillac—see if, perhaps, the time has come for them to make the move to the "car of cars."

And we hope sincerely that 1955 *will* be their Cadillac year. For this, beyond any question, is the

perfect year to discover the joys of Cadillac ownership!

Never before has the car offered so much by way of beauty, or luxury, or performance. It is inspiring to behold . . . and thrilling to drive . . . and wonderful to own—to a degree unprecedented even by Cadillac.

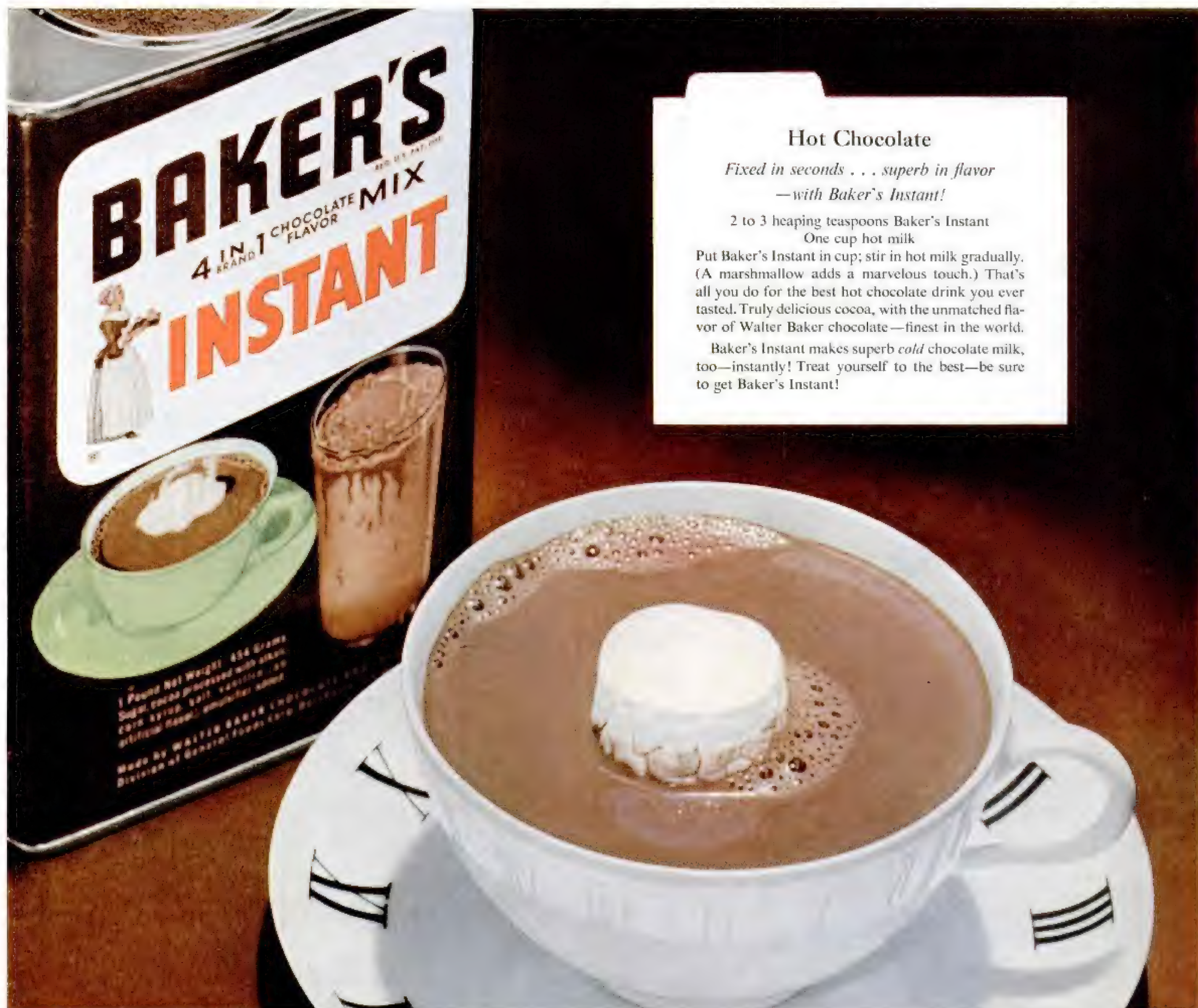
And it is even more practical to own and operate. Its gasoline economy will surprise even the most

veteran Cadillac owner—and it is designed and built to provide years of dependable, trouble-free service.

If a new Cadillac is high on your list of hopes for the new year, we think you should give careful consideration to these facts. And we suggest that you make a "resolution" now—to drive the 1955 Cadillac!

We will be happy to see you at any time!

YOUR CADILLAC DEALER



Hot Chocolate

*Fixed in seconds . . . superb in flavor
—with Baker's Instant!*

2 to 3 heaping teaspoons Baker's Instant
One cup hot milk

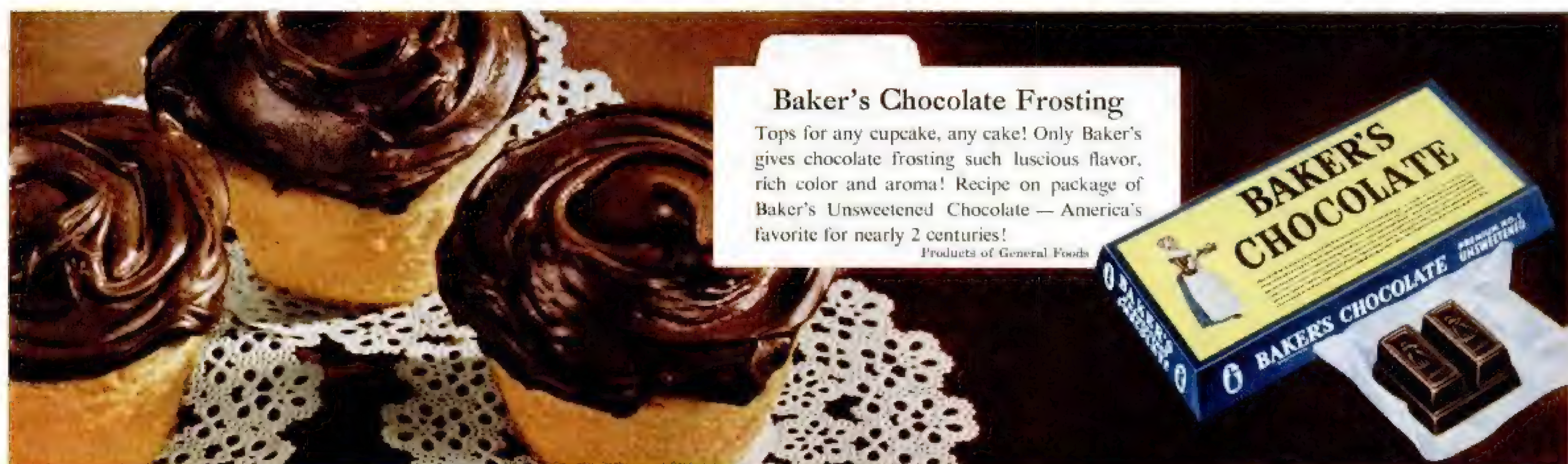
Put Baker's Instant in cup; stir in hot milk gradually. (A marshmallow adds a marvelous touch.) That's all you do for the best hot chocolate drink you ever tasted. Truly delicious cocoa, with the unmatched flavor of Walter Baker chocolate—finest in the world.

Baker's Instant makes superb *cold* chocolate milk, too—instantly! Treat yourself to the best—be sure to get Baker's Instant!

1 Pound Net Weight - 454 Grams
Sugar, cocoa processed with alkali,
corn syrup, salt, vanilla, (20
artificially made), emulsifier, about

Made by WALTER BAKER CHOCOLATE CO., INC.
Division of General Foods Corp., Boston, Mass.

Chocolate makes it good... Baker's makes it best



Baker's Chocolate Frosting

Tops for any cupcake, any cake! Only Baker's gives chocolate frosting such luscious flavor, rich color and aroma! Recipe on package of Baker's Unsweetened Chocolate — America's favorite for nearly 2 centuries!

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SUB-HUNTER MORSE IN A HELICOPTER, SKADDING AND A COSTA RICAN STEED, DIXON ON HIS WAY UP

THE TIME TO BE THERE IS BEFORE IT HAPPENS

A good reporter has the knack of being where things are happening, a better one the knack of being where they are going to happen. Sometimes the effort to be there before events materialize fails, but when it succeeds it pays off big. LIFE, always trying to move in on events as quickly as possible, found this week that it paid off effectively in several ways—one of them almost disastrously so.

In Costa Rica to cover the rebellion, George Skadding and Correspondent Phil Payne were dismayed to find they were not only at the front but ahead of it—and in real trouble. Skadding's account of how they got out (pp. 30-32) omits the fact that he left his luggage in Costa Rica and turned up in New York wearing a suit, four sizes too big, which was given him in Nicaragua by U.S. Ambassador Tom Whelan.

In Groton, Conn., Ralph Morse was prepared well in advance with a helicopter to photograph early surface tests of the new atomic submarine *Nautilus*. After preliminary tests the Navy promised LIFE a special rendezvous, complete

with two dives, 35 miles off Montauk Point. Morse, now in an amphibian, and the *Nautilus* rendezvoused on schedule but after the second dive the huge sub surfaced too soon and Morse missed it. After frantic signaling to her captain, the *Nautilus* obligingly dove again and Morse, who has asked many a subject for "just one more shot," reported, "I've never been told 'yes' in such a big way before."

Sheer patience paid off in our lead story this week on a Boston prison where four convicts held five prison guards and the nation's headlines captive for five days. But while a four-man LIFE team kept an 85-hour vigil, locked up in the prison's reception room, an enterprising Boston *Record-American* photographer, Gene Dixon, hired an 80-foot crane for \$100 a day and, from 75 feet in the air in a bucket (above), shot the two large pictures on pages 20-21 over the prison wall. His enterprise shouldn't have been surprising—Dixon's father, mother, four brothers and three sisters are now, or have been at one time, all reporters and photographers.

CONTENTS

COVER

SPENCER TRACY: 25 YEARS A STAR (SEE PP. 77-80)

THE WEEK'S EVENTS

PRISON REVOLT, WITH LIVES IN THE BALANCE 17
THE PRESS AND THE PRESIDENT ARE PHOTOGRAPHED 22
SUBMARINE IS "UNDER WAY ON ATOMIC POWER" 24
EXPLOSIVE INCIDENT IN A SPUTTERING WAR 30
A LOOK AT THE WORLD'S WEEK 37

EDITORIAL

THE CRISIS OF FREE CHINA 29

PICTORIAL ESSAYS

VANISHED SPLENDOR OF RUSSIA 60
TRAVEL IN THE U.S.S.R. 83
PHOTOGRAPHED FOR LIFE BY HENRI CARTIER-BRESSON

ARTICLE

HORSE DOPING, STILL A BLOT ON RACING, by DR. JOHN McA. KATER.. 92

FASHION

NAPOLEONIC TIARA IS TORN UP 45

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INDUSTRY

AMERICA TRIUMPHS AT BANGKOK FAIR 46

SCIENCE

HAND WITH A MECHANICAL GRIP 50

TELEVISION

LOVE ON A LATE SHOW 55

SPORTS

CRAM CAMP FOR SKIERS 69

MOVIES

A GREAT STAR, SPENCER TRACY, AGES GRACEFULLY 77

OTHER DEPARTMENTS

SPEAKING OF PICTURES: CRAZY CLARINETS AND OUTSIZED
TROMBONES MAKE MUSIC FOR SPIKE JONES 4
LETTERS TO THE EDITORS 12
LIFE'S PARTY: TITO TAKES IN A TIGER HUNT 108
MISCELLANY: ANGELIC GUARDIAN 108

IN FOREIGN COUNTRIES AND MUST NOT BE REPRO-
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The following list, page by page, shows the source from which each picture
in this issue was gathered. Where a single page is indebted to several

COVER—J. R. EYERMAN

4, 5—J. R. EYERMAN
12—OTTO HAGEL—J. R. EYERMAN
15—PETER STACKPOLE, PHIL PAYNE, MICHAEL ROUGIER
17—VERNER REED EXC. BOT. RT. U.P.
18, 19—LT. A.P. (3), INT.—LAURENCE LOWRY—VERNER
REED; CEN. INT.; RT. VERNER REED (2)
20, 21—INT. EXC. LT. HARRY HOLBROOK FOR BOSTON
GLOBE FROM A.P.

22, 23—RALPH MORSE
24—CEN. PETER STACKPOLE—RALPH MORSE
25, 26—RALPH MORSE
30, 31, 32—GEORGE SKADDING
37—JAIIME PATO—FRANK SCHERSCHEL
38—INT.—U.P.—A.P.
40—INT. EXC. T. ALFRED EISENSTAEDT
45—ERWIN BLUMENFELD
46—ERNEST SCHEIDEGGER FROM MAGNUM
47—JAMES BURKE

50—GJON MILI
55, 56, 58—GEORGE SILK
60 THROUGH 67—HERBERT ORTH COURTESY PRINCE SERGE
BELOSSELSKY
69, 70, 72—GEORGE SILK
77—20TH CENTURY-FOX, J. R. EYERMAN
78, 79—CULVER, M-G-M, F.P.G., M-G-M, INT.—M-G-M—
M-G-M, FRANK SCHERSCHEL FOR MILWAUKEE
JOURNAL, INT., U.P., M-G-M
80—M-G-M

81 THROUGH 91—HENRI CARTIER-BRESSON FROM MAGNUM
92—DRAWING BY JOHN GROTH
93—ROBERT W. KELLEY
94—ERNEST HAVEMANN
96—LEONARD MCCOMBE
97—FRANCIS DI GENNARO
100—WALTER DABAN
104—INT.
106, 107—JAMES BURKE
108—EUROPEAN

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NEW ATLAS TUBELESS CUSHIONAIRE TIRE for greater value in Safety, Mileage, Comfort

Combines *all* the advantages of tubeless tire construction with *all* the superior features of the famous Atlas Cushionaire.

The Atlas Tubeless Cushionaire reduces the danger of blowouts. Even in the event of a badly bruised tire, the air escapes *slowly and safely*. Absence of tube means no chafing... lighter weight for easier steering... increased flexibility for better shock absorption... less heat build-up for extra safety and more mileage.

Outstanding in its field, the new Atlas Tubeless Cushionaire has these unmatched features. A special rubber compound provides airtight bonding between cords, preventing air seepage and ply separation. A second airtight wall of rubber coating inside the tire adds rupture resistance and cushioning against impact. A triple layer sealant between wheel rim and tire insures complete protection against leakage, even when the tire is under-inflated.

In addition to these features, you get all the advantages of famous Atlas Cushionaire construction—wide, flat 7-rib tread with non-skid design... buttressed sidewalls... live rubber.

Drive in today. Ask for Atlas Cushionaire Tires—tubeless or with tube. Both carry a guarantee that will be honored on-the-spot by 38,000 Atlas dealers in the U. S. and Canada.

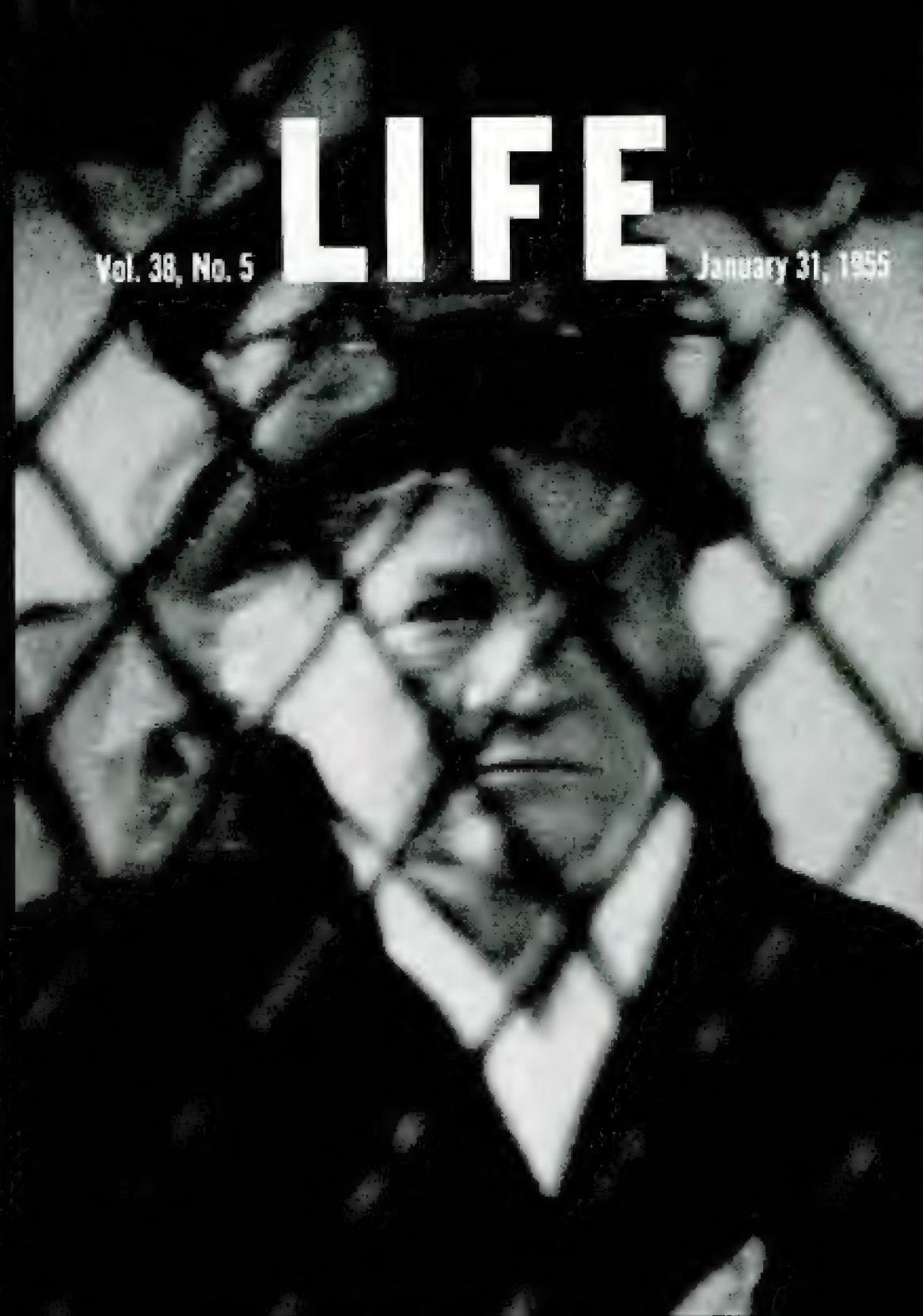


Atlas dealers are specifically trained to give top quality service on all types of tubeless tires. They are equipped to mount Atlas Tubeless Cushionaires on your car.

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WORRIED PRISON'S WARDEN JOHN J. O'BRIEN



CAPTIVE GUARD KADLICK'S MOTHER



CAPTIVE CONVICT McNEIL'S MOTHER



CHAPLAIN HARTIGAN, DR. MERLIN (BELOW)

AS FIVE LIVES HUNG IN THE BALANCE

Seven somber faces, graven with anxiety and sorrow and fatigue, last week revealed the strain of a seemingly endless vigil against violence and death. Inside the ancient and scabrous Charlestown State Prison at Boston, four armed and desperate convicts, thwarted in their attempt to escape, had barricaded themselves in a solitary confinement block. With them, held as hostages, were five prison guards, one of them ill.

The people pictured here, caught up in the sudden drama, awaited its playing out. Warden John J. O'Brien, tough and experienced, hoped to break the siege without bloodshed. Relatives of guards and convicts stood in taut silence in the prison reception room.

Only the prison doctor and chaplains at first moved freely between the embattled cell block and the world outside, as hour after hour the four convicts stood their ground.



GUARD HARRINGTON'S SISTER EVELYN

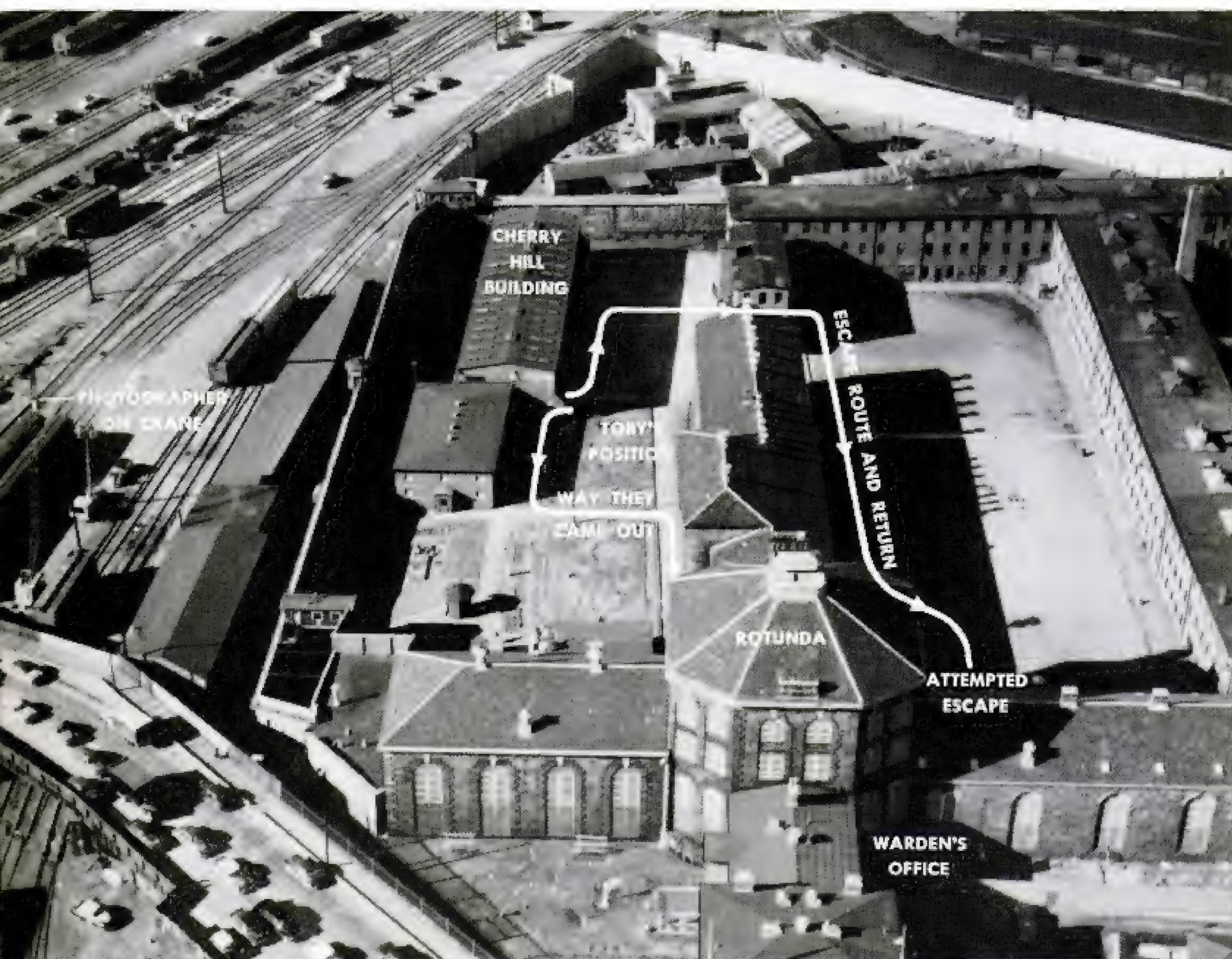


CONVICT GREEN'S DAUGHTER TOBY



THE FOUR MUTINEERS, all desperate criminals, are (from left) Theodore Green, a bank robber who previously had made three jail-break attempts;

Walter Balben, an armed robber who used his paratrooper training to keep discipline among holdouts; Fritz Swenson, a cop killer; Joe Flaherty, a rapist.



ANTIQUATED PRISON is shown in aerial view. It is the oldest state penitentiary in U.S.—the Rotunda dates back to 1805—and is scheduled for

demolition this spring. Prisoners were in Cherry Hill block. From the 80-foot crane at left photographer took final scenes of the drama (pp. 20, 21).



HOSTAGE GUARDS, whose lives were at stake, included from left: Warren Harrington, Thomas Ryan, Girard Kadlick and Eugene Wills. Convicts

considerately allowed prison doctor to treat Wills for virus infection suffered during mutiny. Not in picture is a fifth hostage, Guard Martin Mulkern.

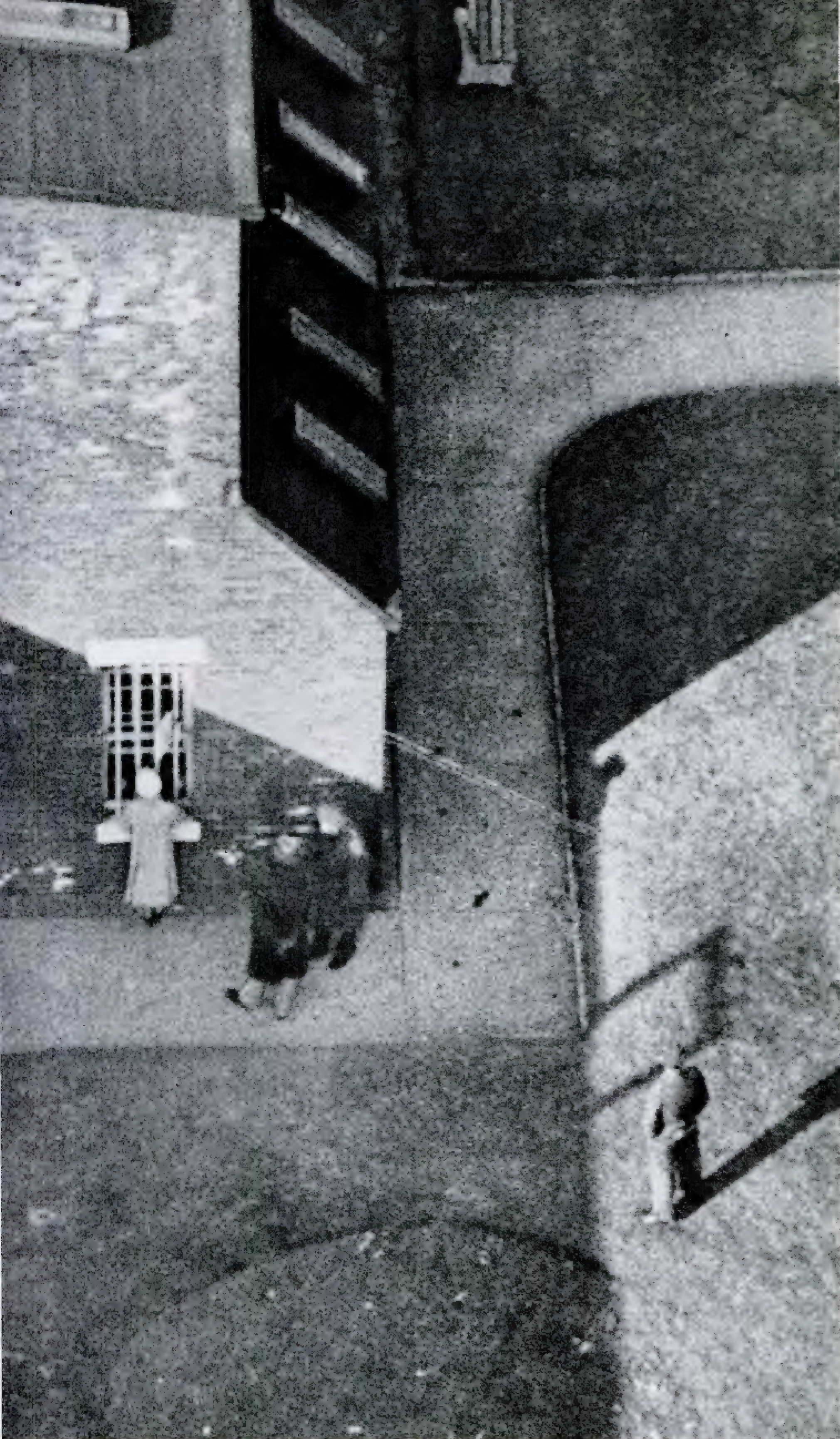


PLEADING THROUGH BARRED WINDOW OF THE

DESPERATE HOLDOUTS,

The siege began at 5 a.m. Tuesday. Armed with smuggled hacksaw blades and guns, the four convicts—who had virtually no hope of ever gaining legal freedom—had broken from their cells and tried to scale the prison wall on a makeshift ladder. The ladder collapsed and the prisoners holed up with their hostages in a building called Cherry Hill.

By daylight the prison was encircled by state police but the convicts still talked of escape.



CHERRY HILL CELL BLOCK, TOBY GREEN TEARFULLY IMPLORES HER FATHER TO SURRENDER HIMSELF

A DAUGHTER'S PLEA, A COMMITTEE'S VENTURE

Teddy Green imperiously demanded that the governor himself give them a get-away car. No deals, snorted the warden.

On Wednesday morning Green's 16-year-old daughter Toby telephoned him from the Boston Post which transcribed the conversation.

"What are you going to do [to the guards]?"

"I would rather not talk about it, honey."

"If anything does happen, by God, you won't be a father to me."

"I'm sorry, Toby."

Later Toby visited the prison to beseech her father to give up (*above*). He still said no.

Each day Chaplain Hartigan and Dr. Merlin spent hours with the convicts. Gradually the talk swung to their real grievances: the demoralizing effects of solitary confinement, the inflexible jail sentences. Finally, in the 66th hour of the siege, the prisoners sent for some prominent Bostonians to come to hear their story.



TIRELESS GO-BETWEEN for rebels, Father Edward Hartigan, leaves prison late at night after arranging for committee (*below*) to meet convicts.



TRUCE COMMITTEE, which convicts selected included (*from left*): Erwin Canham, Rev. Howard Kellett, Rev. John Grant and Dr. Samuel Merlin.



KILLING TIME during the late hours of holdout, one convict tries to attract the attention of photographer's helicopter by flashing signals with a mirror.

DRAMATIC PAY-OFF AS COMMITTEE AND CONVICTS WALK OUT

The end began at midnight Thursday when the committee, with the chaplains and the doctor, walked nervously to meet the convicts and were amazed at being ushered into a room neatly arranged for a conference. Wrote Erwin Canham, editor of *The Christian Science Monitor* and spokesman for the group, "For three solid hours we sat and talked—listened, mostly. The convicts complained of their utter frustration, but most of all of the horrors of protracted solitary confinement. 'You rot,' they said." Then the convicts announced they would give the committee their answer—surrender or not—Friday noon.

Amid crackling tension, Canham and his associates walked into the Cherry Hill building for the second time. "We reaffirmed our intention to help. . . . We were deeply earnest. . . . Finally, as the seconds and minutes hung heavy in the thick prison air, they made their decision. And we made the last walk . . . across the prison yard closely followed by the guards who had been held as hostages. . . . The siege was over."



TRIUMPHANT TRUCE NEGOTIATORS, returning from final conference with holdouts, pass troopers in prison yard. Leading the first three members of





seven-man committee to emerge is Patrick McDonough, carrying a box of rebels' arms and ammunition. Following him are Erwin Canham and Father Hartigan.

SURRENDERING CONVICT, "Teddy" Green (*below*), walks down prison court ahead of two guards to give himself up. Mutineers came out one by one.



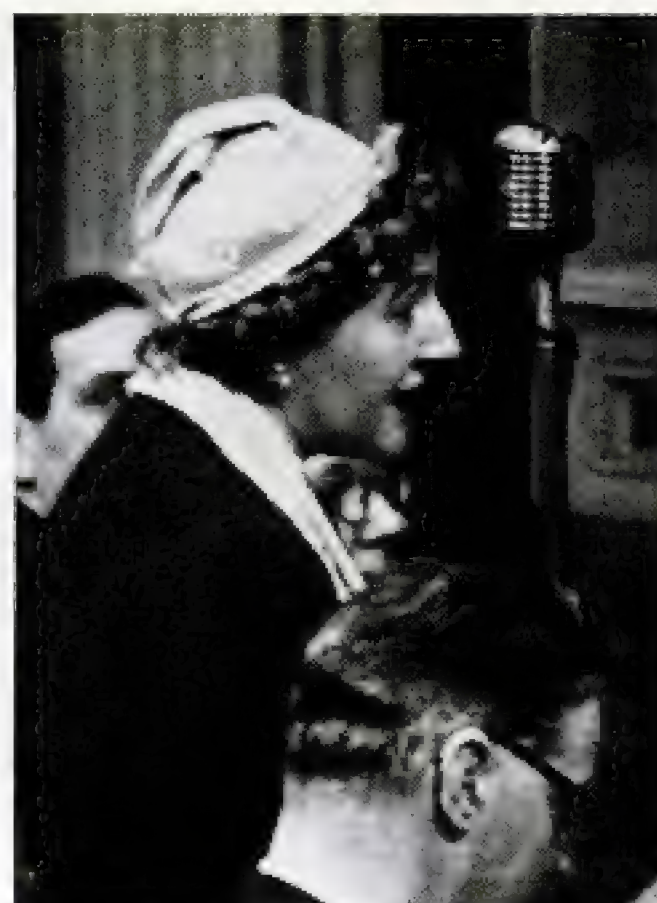
NATION'S REPORTERS ASK AND THE PRESIDENT ANSWERS



JOHN C. O'BRIEN of Philadelphia *Inquirer* asked President if proposed cost-sharing in dredging the Delaware River meant new government policy.



JOHN HERLING of the Editors Syndicate asked the President about a recommendation for a Commissioner of Labor Statistics appointment.



SARAH McCLENDON of the El Paso *Times* brought laughter with a remark that congressmen complained they could not understand budget.



WILLIAM THEIS of I.N.S. asked if the President approved Secretary of Defense Wilson's proposal for non-strategic trade with Red countries.

FIRST PHOTOGRAPHED

U.S. reporters have an opportunity no other journalists in the world are granted. Every week or so they are permitted to fire questions at the nation's Chief Executive about anything from international policy to his plans for dinner. The White House press conference has become the President's chief line of communication with the country. Last week for the first time the country was given a look at its workings when TV movie cameras, newsreels and still cameramen were allowed to photograph the entire proceedings. That night, after being edited by the White House staff, two thirds of the conference was shown in film on TV. But the TV audience missed much of the spirit of the occasion, for the presentation focused entirely on the President who, save for interruptions, might just



CAMERA GEAR rests on 2½-foot wooden platform constructed at rear of the room. The reporter grinning at left is Georgi Bolshakov of Soviet Tass Agency.

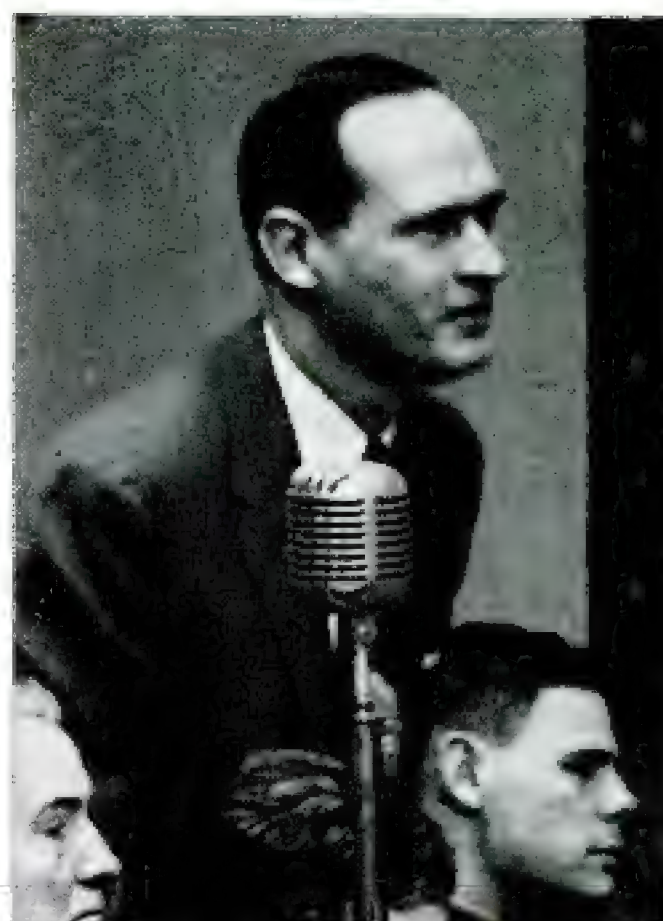




ROBERT CLARK of I.N.S. asked about recent Red attacks on Nationalist islands in China Sea in relation to U.S. commitments to defend Taiwan.



MERRIMAN SMITH of U.P. asked President's impressions of Dulles' statement U.S. would not wait "forever" for China to release our airmen.



JOHN D. MORRIS, one of four New York Times correspondents present, asked President if he had made a promise to balance budget next year.



PRESIDENT PONDERES before replying. He answered almost all the questions, not always with yes or no but never with a bare "no comment."

PRESS CONFERENCE

as well have been making a speech. The questioning reporters (*above*), who lend variety and drama, appeared only as disembodied voices.

Beforehand reporters had reservations about the experiment—worried that the conference might now change into a political forum and that TV "glare" and cameras might create disturbance. Actually the conference went off about as usual. The turning of the TV cameras could scarcely be heard and a new fast film called Tri-X, used by all photographers present, required only a little increase in lighting. The reporters, a hypercritical group, were mostly content and thought the President had acquitted himself well. Those who complained were reminded by Presidential Secretary Hagerty that "we are in the 20th Century—the second part."



RUSHING TO PHONES, reporters leave streaks on film. U.P.'s Smith, blur on right, White House news dean, has just said, "Thank you, Mr. President."



IN PHONE BOOTHS just outside of the news conference room, reporters dictate their stories directly to their offices. Smith is in second booth from left.



LOOKOUTS. OFFICERS STAND ON BRIDGE. AT RIGHT ARE EXECUTIVE OFFICER LIEUT. DEAN AXENE, DECK OFFICER LIEUT. DAVID BOYD, COMMANDER WILKINSON



IN HEAD-ON VIEW *Nautilus* is shown backing out into the Thames for her first trial run at sea.

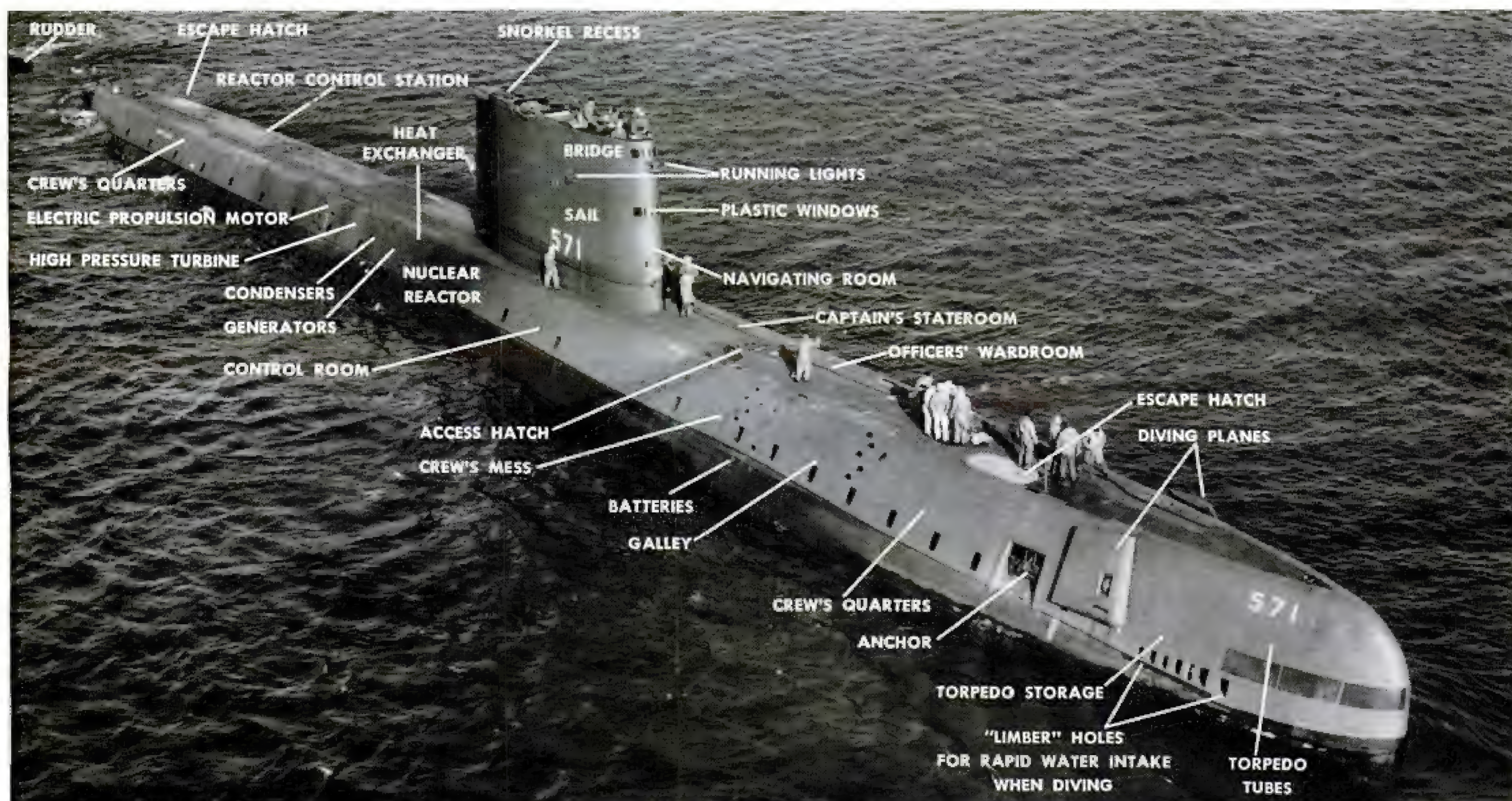
UNDER WAY ON NUCLEAR POWER

On a trial run the 'Nautilus' proves herself in turbulent seas

Into submarine headquarters of the Atlantic Fleet in New London, Conn. came a historic message: "At 1601Z under way on nuclear power." In nearby Groton the world's first atomic submarine *Nautilus* backed into the Thames River and headed downstream for her first sea trial. In Long Island Sound, Commander Eugene Wilkinson put the ship through exhaustive tests designed to check every feature of

her new equipment. Back in Groton after only two days at sea, one officer reported exuberantly, "We could've gone to Europe and back."

The *Nautilus* then entered the wintry Atlantic (opposite page) at speeds well over her announced 20 knots. After diving (p. 26) Wilkinson reported she handled with an ease and certainty rare for any ship—and man had moved, with the *Nautilus*, into a new oceanic age.



ANATOMY OF "NAUTILUS" is indicated above. Information comes from material previously released by the Navy. Water is forced through the nuclear reactor where heat of fission raises it to high temperatures. It passes into heat exchangers where it turns other water into steam for the turbines which drive

submarine's screws. Batteries and electric motors provide auxiliary power in case of reactor failure. Inside the sail, popularly but incorrectly called the conning tower, are the craft's sensitive navigating instruments. Sub can run submerged indefinitely but raises snorkel when convenient to get air for the crew.





JUST UNDER the surface, the *Nautilus*' sail and periscope sheath leave a broad wake off Montauk Point. With her advanced underwater detectors she rarely needs the periscope.

SURFACING, top of her sail appears, revealing recesses which hold pairs of radar and radio antennae, her snorkel and periscope which is shown raised.





Shepherd's Pie! Brown 1 minced onion in 1 tbsp. shortening in skillet. Blend in 1 can Franco-American Beef Gravy. Add 2 cups cubed cooked

beef, 1 cup cubed cooked carrots, $\frac{1}{2}$ cup peas. Pour into casserole and pile 2 cups mashed potatoes on top. Bake at 450°F. for 25 minutes.



Beef Topping for potatoes! Brown $\frac{1}{2}$ cup chopped onion in 2 tablespoons shortening; blend in 1 can Franco-American Beef Gravy, 1 cup cooked beef, black pepper. Pour over baked or mashed potatoes.



Beef Stew in a hurry—thanks to Franco-American Beef Gravy! Simmer one cup cubed cooked meat, a few carrots, onions, potatoes with a can of Franco-American's pride and joy. It's terrific!

Have you tried all these ways to use Franco-American Beef Gravy?

It's ready to serve, smooth, rich, and low in calories.

MANY homemakers tell us that discovering FRANCO-AMERICAN Beef Gravy is like finding a new recipe book. There are so *many* enticing ways to use it! And it's *always* ready.

This velvety-brown gravy is made from quality lean *beef*, onions, celery and ten other ingredients, all blended into a smooth, rich

consistency. It's perfect gravy, with real roasting-pan flavor!

Shown here are seven of the many intriguing ways to use Franco-American Beef Gravy. Your family is sure to like them *all*, so it's a good idea to keep several cans of this versatile Beef Gravy on hand.



"Beefy" Meat Loaf! For more real beef flavor, use Franco-American Beef Gravy as the moistening ingredient in your favorite meat loaf recipe. And before serving, ladle on *more* bubbly-hot gravy.



Sunday-best Rice! Mix 1 can Beef Gravy, $\frac{1}{2}$ cup water, 1 sliced onion, 2 sliced carrots, $\frac{1}{4}$ tsp. salt, dash black pepper. Bring to boil, stir in $\frac{1}{2}$ cup rice. Cover, simmer about 30 minutes, or until tender.



Steak special! Get 4 frozen minute steaks (1 pkg.), 1 can Franco-American Beef Gravy, makings for toast. Cook steak as directed on package, make sandwiches with toast, and pour heated gravy over all!



DIET NOTE: Franco-American Beef Gravy contains *very few* calories. About one-quarter the number you get in homemade gravy. So you can ladle it on generously—with no worries about your weight.



HANS de MEISS-TEUFFEN

His adventures in Africa, as a British intelligence agent in occupied France, as a sailor crossing the Atlantic alone in a 33-foot yawl, could — and did — fill a book. Title: *Wanderlust*.

FOR MEN AMONG MEN, THERE IS A WHISKEY AMONG WHISKIES — IMPERIAL

Man, this is whiskey!

Made by Hiram Walker to taste as a great whiskey should

THE CRISIS OF FREE CHINA

THE 'CEASE-FIRE' CONCEPT COULD LEAD TO YET ANOTHER GREAT COMMUNIST VICTORY

When Eisenhower became President, the Chinese Communist drive to conquer Asia faced armed resistance at three points: Korea, Indochina and from Formosa. Two of those fronts are now silent, permitting the Reds to direct their energies elsewhere. Last week they were directing them against the outposts of the last front, Formosa, and the Administration at first responded to this attack with talk of a strategic withdrawal and a cease fire. Though the President has now proclaimed anew U.S. determination to defend Formosa, the damage done by that first reaction has not yet been undone.

The talk of withdrawal and a cease fire had a shattering effect among the free Chinese. To them it implied a major change in U.S. China policy. "The United States is a fair weather friend," said one Chinese in Hong Kong last week. Said an office worker, "This is the first American double cross since the White Paper." Said a housewife, "A blundering friend is worse than an enemy." Said a rich refugee, "My God, does Eisenhower know what he is saying?" Said the anti-Communist press, "An atomic bomb dropped over free China . . . stabbed in the back."

These reactions were caused not so much by the U.S. refusal to fight for the Tachen islands as by the news that Eisenhower would welcome a U.N.-directed "cease-fire" in the Formosa Straits. Among free Chinese this phrase translates only one way: the neutralization of Formosa. This neutralization policy, favored by the British, is an attempt to freeze the *status quo*. It would probably lead not to the "stabilization" of the area but to the Communists' sworn goal of taking Formosa. It is based on a plausible but dangerous misreading both of the nature of Chinese Communism and of the reason for which the Formosa government exists.

Formosa is not just a showcase and sanctuary of freedom in Asia; it is a symbol of free nationalism in Asia. The nation it stands for is not Formosa but China, now under international Red control. Formosa keeps alive among millions of Chinese everywhere the hope of a free Chinese nation. Its very existence implies the ultimate overthrow of the Red regime. If this hope should die, the present Formosa government would probably lose its soul and shrivel to the point where the Reds could conquer the island as an inside job. Red Foreign Minister Chou En-lai recently let the prime minister of Burma know that that is what he expects will happen. After Eisenhower's cease-fire remarks at his press conference last week, the Red broadcasts zealously urged leading Formosans by name to defect: "We are going to take Formosa and you know it."

With the Korean and Geneva truces President Eisenhower won a reputation in the world as a man of peace. He even succeeded in breaking the Communist monopoly of this sacred word in world opinion. But the Communists can play it either way. Having lost their monopoly, they now make an asset of their loss. By attacking marginal real estate—the "open nibbling" that Senator Knowland predicted—they leave Eisenhower with the burden of defending his new reputation instead of the real estate. The conquest of the Tachens will add to Communism's greatest asset in Asia, a greater asset than the word "peace." This asset is the widespread belief that the Reds are in China to stay and are marching through history from strength to strength.

"The Communists," cables LIFE Correspondent John Osborne from Hong Kong, "are being allowed to enjoy a degree of apparent success which far exceeds their actual position and power. By a terrifying process of deception on their part,

and of self-deception on our part, the appearance of strength to all effects becomes the reality. If enough people, including their own captive peoples, come to believe that the Communists are succeeding, then they *are* succeeding. The Communist leaders are engineering a mass abandonment of hope, a colossal surrender to an unwanted fate."

The Tachens are just another step in this mass psychological surrender. The U.S. could have saved them, perhaps very cheaply. In all probability (to continue quoting Osborne) Red China "would, if driven to do so, make any conceivable concession to avoid war with the U.S. Its readiness to make concessions has been displayed on two occasions—in the last days of the Geneva conference when its hunger for an Indochina armistice was apparent, and when in order to seal the Korean armistice it submitted to mass defection of its PWs—an event which shook China's Communists far more than it impressed the complacent West.

"Asia is in no danger of going Communist by voluntary choice. No country of Asia has *chosen* Communism. Communists and pro-Communists are on the defensive in every country of Asia, *including China*. This mighty negative, universally overlooked, ought always to be at the forefront of any calculation of sound and unsound policy in Asia.

"Asia is in perennial and considerable danger of going Communist by involuntary choice. It will do so as and when its peoples conclude that it is unsafe for them to be anti-Communist or non-Communist. Any show of Communist success of any kind, any concession to Communism, however small and 'unimportant,' makes Asians feel unsafe and insecure in their preference. America's first necessity—as long as a non-Communist Asia is considered vital to American security—is to make their preference safe.

"Our paralyzing tendency to equate any and all future warfare in Asia with general atomic war is unfounded. We rather than the enemy would determine whether any local war was kept local or extended into general war.

"The Tachens are, by common agreement, not 'vital' to the defense of Formosa. But their seizure encourages the Reds to move against other offshore islands, thereby multiplying their appearance of strength, compounding all the indirect effects of this process throughout Asia and steadily increasing the chances that the U.S. will finally be drawn into the very conflict it seeks to avoid."

The Senate is starting hearings on our new defense treaty with Formosa, committing us to defend that island and the Pescadores against unprovoked attack. During its negotiations Chiang Kai-shek agreed to consult the U.S. before embarking on any mainland adventures; but he also thought he was assured against any change in our policy toward his government. "Neutralization" would certainly be such a change, and the Administration will be criminally negligent unless it finds a way to convince all non-Communist Asians that we will not stand for it.

The Formosa alliance is a tremendous asset to the U.S. *provided* we really want to save Asia from Communism. "Neutralization" will not save it but lose it. The Formosa government is one of the few real obstacles to the Communist drive in Asia precisely because it intends their ultimate downfall, just as implacably as they intend ours. The time and circumstances of their downfall are another question. But unless we are willing to envision and intend it, as Chiang does, then the treaty is a fraud, our third front in Asia is lost and the Reds are on the march again.



CAPTURED PHOTOGRAPHER SKADDING (LEFT) CHATS WITH REBEL GUARDS

EXPLOSIVE INCIDENT IN A SPUTTERING WAR

'Life' photographer reports, in photos and words, action in Costa Rica before and after his capture

As the rebellion in Costa Rica (LIFE, Jan. 24) sputtered into its second week—and, according to the Costa Rican government, was sputtering out—the struggle and the killing were bitterly real to the men who experienced it. The personal story of one skirmish, lived through—but barely—by LIFE Photographer George Skadding, depicts the intensity of the fighting and also gives the most intimate account yet to come out of Costa Rica's vest-pocket war.

by **GEORGE SKADDING**

We moved out on Saturday morning, Jan. 15, from the town of Liberia, Costa Rica, to Santa Rosa, an old cattle hacienda where government troops were supposedly concentrating against rebel forces coming down from the north. Our jeepload of correspondents was in the command of Daniel Oduber, a former Costa Rican ambassador-at-large who wore a Tommy gun in his hand and a felt hat pushed back over his head. He had no rank because, he said, he joined up too fast to get one. Our driver was a 20-year-old civilian named Gordo who had no interest in the war.

Bouncing over the grasslands, we reached the hacienda about noon, greeted with patriotic yells by a ragtag band of 100 government volunteers. They fed us out of a pot stewing with rice and black beans and then lounged around the courtyard as we got more and more fidgety.

Finally Oduber broke into the sultry boredom with, "Come on, we're going on a patrol to see something."

Some war! The ambassador in the vanguard, a patrol of about 20 men and us in four jeeps barreling north. With me were John Abney, a United Press reporter-photographer from Mexico City who wrestles professionally on the side under the name "Earthquake McGoon"; Paul Sanche, an NBC-TV movie cameraman in Guatemala; and TIME-LIFE Correspondent Phil Payne. After 40 minutes Oduber ordered his men to park the jeeps and proceed afoot. We had just started walking up the road, the troops ahead, when we finally found the war.

Coming down the road was a big orange half-track, oozing with men. We had expected the rebels to be a wild-eyed crew with straw hats and



AS MISSION GOT UNDER WAY, SKADDING TOOK THIS PICTURE OF THE PATROL

muzzle loaders. But these men were smartly uniformed in battle dress, wearing steel helmets and brandishing Mausers and Hotchkiss automatic rifles. Sixty feet in front of us the truck halted.

Then the chatter of automatic weapons and machine guns broke upon us, along with a burst of grenades. Two feet above our heads bullets sang through the tall grass—bullets, we noted with discomfort, coming from both directions.

"George," Payne said, worrying about our picture coverage, "are you getting any of this?"

"Are you crazy?" I said through the grass in my mouth. "Those are machine guns! All I'm getting is scared."

They told me later we were buried in that grass under crossfire about 45 minutes. Actually I would place it at something like six years. However, the fire started coming in shorter bursts and pretty soon we could hear angry voices. Payne, who speaks Spanish, made them out.

"George," he said quietly. "They're saying 'Viva Calderón Guardia!'" This name I knew as the chief rebel leader. "George," Payne said. "They're also saying 'Manos arriba!' That means 'Hands up!'"

Payne and I started backing through the grass. We backed into an object which turned out to be a fierce-eyed rebel holding a cocked Mauser.

"Manos arriba!" he roared. "No se mueve!" ("Don't make a move!")

The two orders seemed contradictory, but Payne and I flung up our hands. The young rebel pointed at Payne, then at me.

"Hey, Phil," I said, "tell him I can't speak Spanish."



ADVANCING IN THE BRUSH, MINUTES LATER MOST WERE DEAD OR CAPTURED

The fierce eyes mellowed. "That's all right," the rebel said in a clear accent, smiling. "I speak English."

I told him I was not a soldier but a *periodista* for LIFE.

"Ah, LIFE!" said the rebel. He then became a very accommodating guy. More gunfire broke out. Presently it was interrupted by a shout.

"George Skadding! Phil Payne!"

It was John Abney's voice. We stuck our heads up.

"Come on over and surrender! They're going to lay down a mortar barrage!"

We started, *manos arriba*, through the grass in Abney's direction. This led us into a roadside ditch where we found our fellow correspondents guarded by a bunch of trigger-nervous rebels. They searched us and took my cameras. (I later found out they had opened the cameras, fogging most of my film.) They directed us all to lie down, belly-up and hands under our heads, then got into a brisk argument which Payne translated. "Let's shoot them now," one rebel suggested.

"No," said another. "Let's take them back to camp and shoot them."

"No," said a third, "let's take them with us as a shield."

Under the circumstances the last alternative appealed to us most, and it was finally adopted. The rebels tied our hands behind our backs and marched us up the road as more bullets whistled through the grass fields. Of the 20 government troops in our patrol at least 15 were killed in this action. Young Gordo was also killed. I hated it about Gordo most of all. He had no interest in the war.

CONTINUED ON NEXT PAGE



CONGRESSIONAL PLANNER, Carlos Salazar (right) and ex-Ambassador-at-Large Daniel Oduber discuss tactics before setting out on their ill-fated patrol.



CONGRESSIONAL INDIGNITY is inflicted on Salazar who kicks helplessly (center) as a rebel soldier hits him with a rifle butt to shove him onto truck.



CONGRESSIONAL CAPTIVE, Salazar (balding head) stands with other survivors of patrol and helmeted rebel guards on truck taking prisoners to captivity.



REBEL COMMAND POST was moved back in jungle after government acquired an air force. Here a returning scout (gesturing) reports on his mission.

Explosive Incident CONTINUED

Three miles up the road we stopped at a rebel command post. Another argument: should we be shot now or later? Abney kept talking hopefully about a friend on the rebel side; if he came along, everything would be fine. Speak of the heavenly angels! Up came Abney's friend—a mortar sergeant—and they greeted each other like buddies. Our captors at least stopped arguing about when to kill us.

That night we slept on the ground at a road camp. Sanche and I lay awake discussing the stars, trying to observe if it were true you could not see the Big Dipper so far south. You can't, if anybody cares.

We stayed awake until the guard was changed. The new guard introduced himself with polite formality:

"I am your new guard. I hope you will make no indiscreet or sudden movements. In case you do, I have here 76 rounds and a hand grenade."

Next morning, Sunday, we were driven in a Land Rover (British jeep) to an airfield near La Cruz. Here we met the West Point-trained rebel commander, 27-year-old Captain Teodoro Picado, who marveled at our being alive. "You were born again yesterday," he said.

"If you wish," said Picado, "you can now cover the rebellion from this side or we will take you to the lines and supply you with a white flag to convey yourselves back to the government side."

We decided to stay. Picado returned my cameras and had an aide spread out an old tent, the aide saying, "This is your press club."

That afternoon we expressed interest in a bath. Picado had an armed soldier take us to a nearby river. Here, while Capuchin monkeys and parrots argued in the trees, we bathed, washed our clothes. Back in camp ex-President Calderón Guardia of Costa Rica, political leader of the rebellion, came and talked to us about "our wonderful army."

Monday morning Picado got word that the U.S. had sold Costa Rica four F-51 fighters at the behest of the Organization of American States. Now that the government had an air force, Picado moved his headquarters about a quarter of a mile into the jungle. That night we were asleep when we were awakened by Picado himself.

"How would you like to see us knock over Santa Rosa?" he asked.

We moved south to where the attack was supposed to jump off at 8 a.m. It didn't, and at 9:30 the rebels started relaxing. Payne and I went back to Picado's headquarters. They didn't take Santa Rosa.

Tuesday night Picado said, "Things are getting too hot. We'll have to move you north." We were promptly jeeped to another camp for the night. Next morning, full of eggs, rice and beans, we and our armed escort clambered aboard a caterpillar tractor and headed for Nicaragua. At the border a major dashed up, greeted us politely and started us to Managua in a jeep. In Managua we rolled straight to the presidential palace. Unshaven and caked with dirt, we shuffled down glistening halls hung with blinding, prism-reflecting chandeliers and into an office bursting with sharpshooting trophies and hundreds of military souvenirs. From behind an oval conference table rose a huge man.

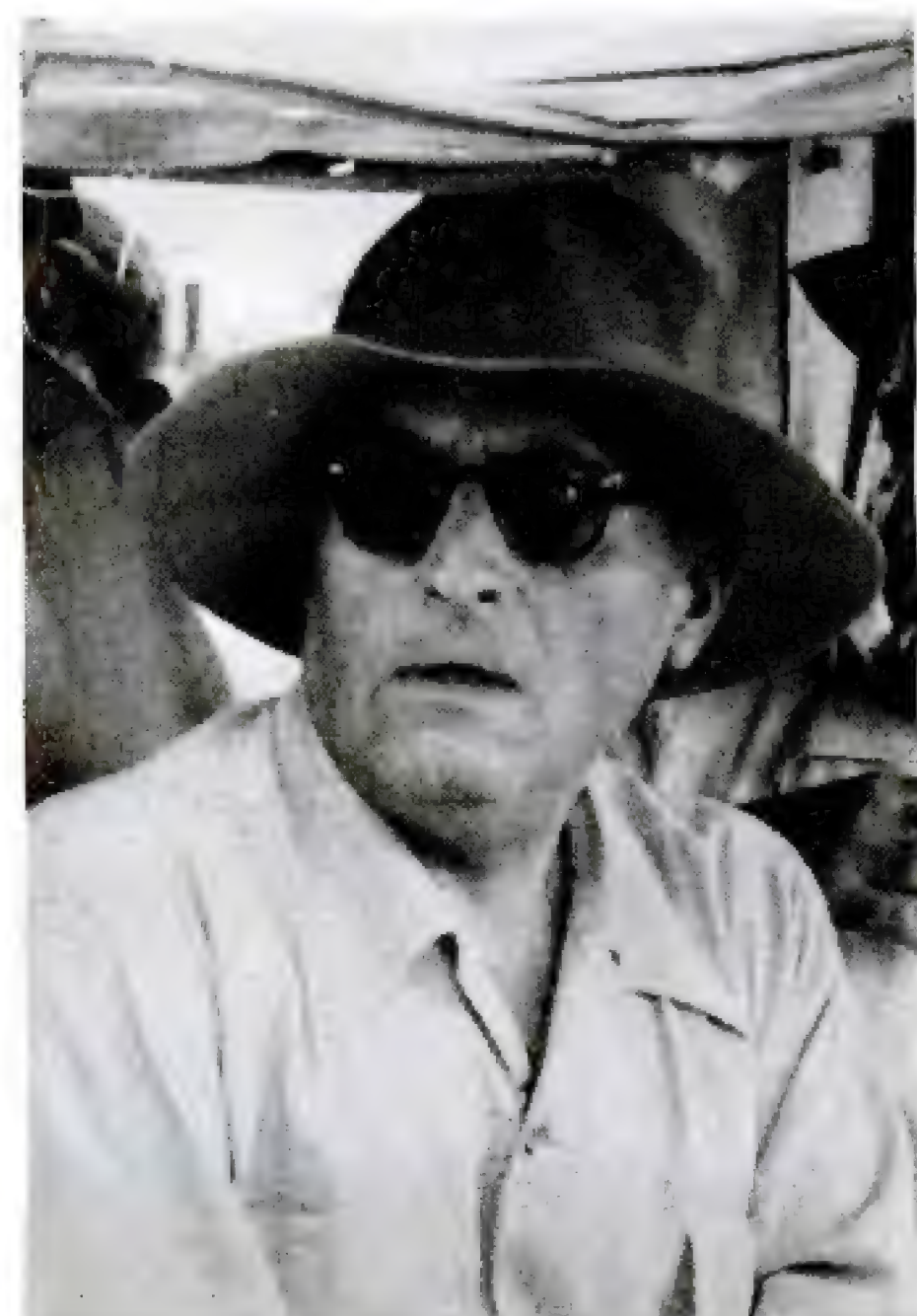
"How do you do, gentlemen," said President Anastasio Somoza of Nicaragua. After briefing us, he warmed up: "Now I'll tell you about that crazy, lunatic, so-called president of Costa Rica, Figueres. . . ."



FIELD COMMANDER Teodoro Picado posed for Skadding at a time government claimed him killed.



FALLEN REBEL was killed by a hand grenade in another skirmish same day Skadding was captured.



POLITICAL BOSS of the revolt, Rafael Calderón Guardia, paid brief visit to the fighting front.



Why not give each other these Manhattan shirts as Valentines?

MEN like to think that women don't know how to buy their shirts. And vice versa. Smart thing to do for Valentine's Day is to rely on a label—like *Manhattan*.

A gift-giving lady is assured that the pink broadcloth shirt, shown here, is as manly as a golf club locker room. And that the medium spread, short-point Blake collar is masculinely correct. Trust *Manhattan* to speak a man's lan-

guage, whatever the collar or color. Shirt, \$3.95. Acetate with silk embroidery tie, \$1.50.

And a gift-giving gentleman can confidently choose the Lady *Manhattan* shirt shown above. After all, who should know better than *Manhattan* how to dress a woman in a man-tailored shirt? Her broadcloth shirt, with embroidered heart on collar, \$5.95. The *Manhattan* Shirt Co., 444 Madison Avenue, New York 22.

©1955





United States Rubber Company presents the most advanced tire of all time.

It brings to your car a new elegance of styling.

It brings to your driving a new concept of safety and comfort.

Expect great things

from the *NEW NYLON TUBELESS* **U.S.**

The first thing you'll notice, about the New U.S. Royal Master, is what you can see. And you can expect to be happily surprised! For you'll see a tire utterly different from any you've known before.

Here is the *action* look—the *motion* look—the look of verve and dash... pace and power. You see it in the fleet, dynamic design of modern wheels. You see it in the long, low lines of modern cars. Now, for the first time, you see it in a *tire*—a tire whose High-Light styling

blends with the racy contours of today's sleek automobiles... a tire designed to make your car look more *alive*—more ready—willing and eager to GO!

But "handsome is as handsome does"—so we want you to know about the advanced *performance*



you can expect from the New U.S. Royal Master. To that end, we tell you simply that it is the *safest* nylon tubeless tire yet contrived for your use—at whatever speeds you may drive your car. In truth, it may well be that we have made this tire even safer than *need* be!

For, the chances are you will never call upon it to deliver its full measure of protection against the hazards of higher speeds, blowouts, punctures, and skids.

In part, this superior protection comes from the advanced tubeless construction and the exclusive, high-speed Inst-o-matic tread of the New U.S. Royal Master. In part, it comes from an improved new method of treating the nylon





The first tire whose smooth High-Light Styling carries out the clean contours of modern motor-car design

Royal Master

cords that form the body of the tire.

This method, developed by U. S. Rubber engineers, applies a new rubber-and-chemical compound to the nylon cords. Then they are subjected to exacting modulus control

which *stabilizes* the tire body—*fortifies* the cords against heat, friction, and wear. The result is a far *cooler-running*, more *flexible* nylon tire. Air-seepage and tread-separation become things of the past!

Beyond all this, there are still other virtues that will commend the New U. S. Royal Master to you. One is the soft, smooth, silent ride it will give you—*throughout far longer mileage than you ever expected to get from any tire.*

Another is the exclusive design of the



sidewall which curves gracefully and smoothly out to function as a constant Curb Guard* for the recessed whitewall. In actual tests, this great tire was driven against the curb for more than a mile with no scuffing or soiling of the gleaming whitewall!

Whether you are buying a new 1955 car or re-equipping your present one, take care of your tire needs *for good* with a set of New U. S. Royal Masters that fit all standard rims.

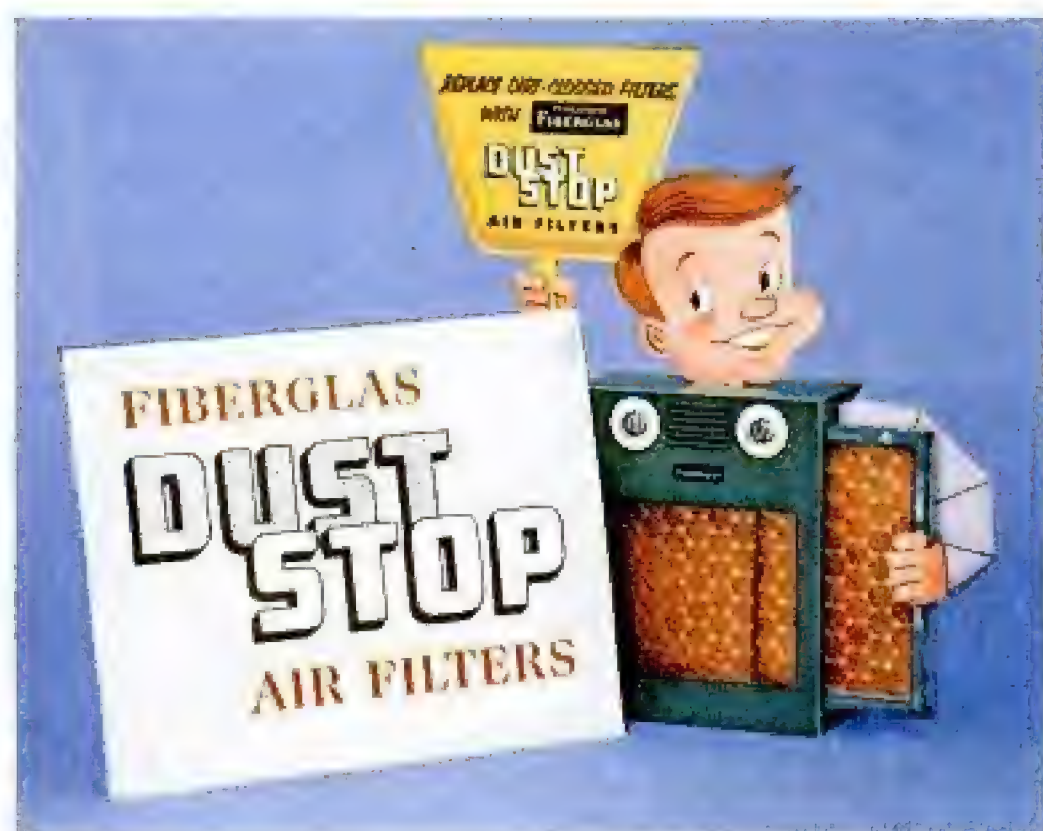
But you really must *see* the New U. S. Royal Master to appreciate the beauty of its High-Light styling. You must *ride* it to know the marvel of its easier handling and smoother ride. So visit your car dealer or U. S. Royal Tire Dealer soon.

*Trademark of United States Rubber Company





To stay warm inside when it's cold outside
Change dirt-clogged furnace filters...now!



When you buy filters, insist on genuine Fiberglas Dust-Stops . . . available at all stores and dealers where you see this Jiminy Filter display. Fiberglas Dust-Stops are the filters recommended by most equipment manufacturers for both furnaces and air conditioners.

Chances are that *now*—after several months of hard use—the filters in *your* forced warm air furnace are all clogged up with dust and dirt. That's why it "eats" more fuel and "puts out" less heat!

And that's why heating experts recommend that now—in January—you replace dirty filters with new Fiberglas* DUST-STOP* Air Filters. They're economical—and they pay for themselves *in a hurry*. They last longer because they trap dirt *all through* the filter—not just on the surface.

So for a cleaner, warmer house and lower fuel bills . . . change your furnace filters now. Ask your furnace service man

to put in new Fiberglas DUST-STOP Filters . . . or get them yourself at your hardware, furnace or department store. *It's cheaper to change them twice a year than to forget them even once!* Owens-Corning Fiberglas Corporation, Dept. 10A-31, Toledo 1, Ohio.

Look for this label



*makes good things better
 . . . makes new things possible.*

*Fiberglas and Dust-Stop are trade-marks (Reg. U. S. Pat. Off.) of Owens-Corning Fiberglas Corporation.

A LOOK AT THE WORLD'S WEEK

IN MADRID CHEERS FOR A PRINCE

In a Madrid station named Delicias a thousand dukes, marquises and counts cheered 16-year-old Prince Juan Carlos (*right*), son of the royal pretender. With Dictator Franco's approval indicated, Juan Carlos may see a lot more of his fervent royalist admirers.

IN PARIS WORRY OVER A ZOUAVE

With Europe's rain-filled rivers spilling over, Parisians peered down from the Pont de l'Alma at a 17-foot statue of a Zouave (*left, below*). In 1910, when the Seine reached his beard, central Paris became a vast lake. Last week the river passed his cartridge belt.



CONTINUED ON NEXT PAGE



Only 'Chap Stick' offers your family this two-fold protection

1 *Personalized**: each 'Chap Stick' individually marked so you can tell your own at a glance.

2 *Antiseptic*: protects your lips while it soothes them.

'Chap Stick' is wonderfully soothing for the feverish lips of convalescents. And it brings instant comfort to all lips that are dry, cracked or sore. Used regularly 'Chap Stick' will keep your lips smooth, refreshed and relaxed.

Pocket-size; easy to apply; handy to carry with you. Buy a Personalized* 'Chap Stick' for every member of your family. *Refuse all substitutes.*



KEVO-ETTS

only 9 calories

Fight Fatigue and Over-Eating the Drugless, Natural Way!



5¢ at health food, drug, & grocery stores

Kevo-Etts, candy-like energy food-supplement and reducing aid, contains 15 foods rich in natural vitamins and minerals—wheat germ, brewers yeast, deep sea kelp, alfalfa, etc. 100% pure, no drugs. If your dealer does not stock, use coupon below.

Kevo & L4 Co., Azusa, California

Please find: () 25¢ for 3 pkg. Kevo-Etts.
Larger sizes: () \$1.35 () \$2.59

NAME.....

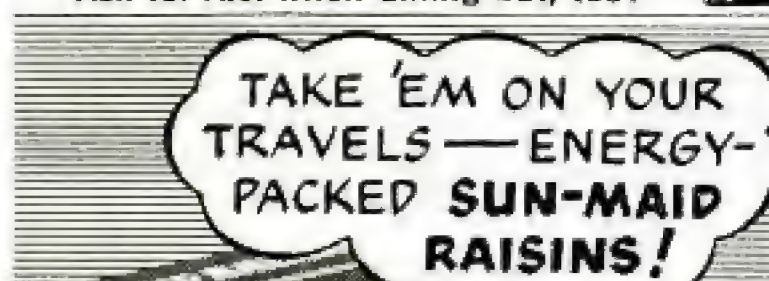
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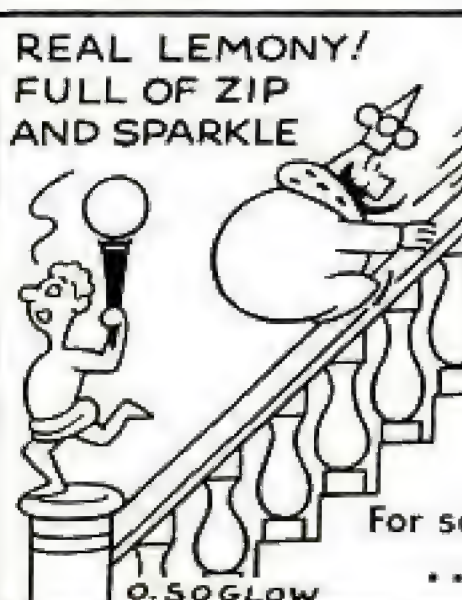
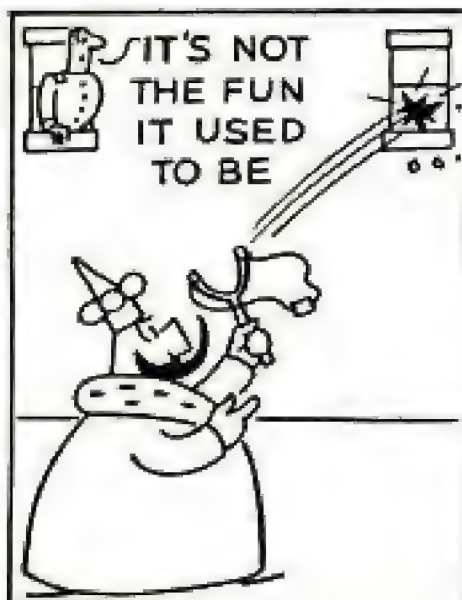
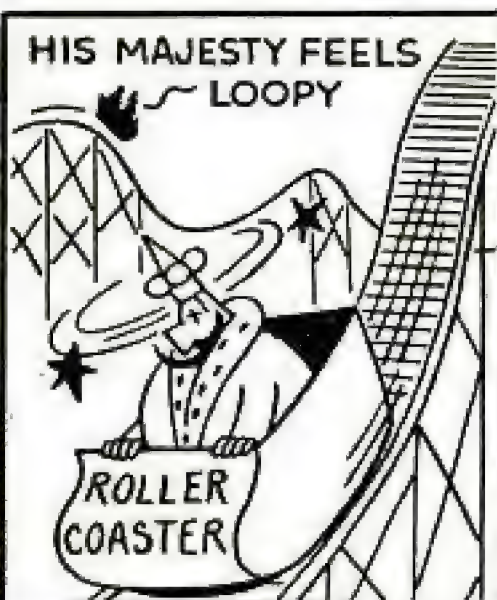


for Style—go
NORTEX
jackets and
sport shirts

SCHINDLER & CO. INC.
Empire State Bldg., NYC



HIS "ROYAL HIGHNESS" HUNTS HIS YOUTH



IN TACHENS SMOKE RISES FROM NATIONALIST FREIGHTER HIT BY REDS



U.S. PRISONERS HELD IN CHINA PASS TIME AWAY PLAYING VOLLEY BALL



UNITED NATION'S HAMMARSKJÖLD IS WALKED UNDER ANTI-U.S. BANNER

RED CHINA'S BOMBS AND BOOBY TRAPS

Even as their troops, attacking in the Tachens (top picture), forced the U.S. to momentous decisions on where to draw defense lines, Red China's propaganda experts proved how deft and despicable they can be. In Peking, U.N. Secretary-General Dag Hammarskjöld did not succeed in freeing the Americans held as "spies." But he was given photographs (middle picture) designed to prove that the prisoners were being treated well. His own picture (bottom) was taken under a sign reading in Chinese, "Oppose American imperialist aggression . . . Oppose American-Chiang mutual defense treaty." Then he was informed that families of the imprisoned men might come to China and visit them—thus giving the families a cruel choice between desire to see loved ones and aversion to being caught in a propaganda booby trap.

CONTINUED ON PAGE 40

NOW! YOU CAN WASH FINE CHINA IN YOUR ELECTRIC DISHWASHER

...without fear of pattern fading!

New **finish** scores second scientific triumph



NEW PLATE
"GREENWOOD"
OVERGLAZE
PATTERN



SAME PLATE
AFTER 365
WASHINGS WITH
NEW "FINISH"

NOTE: 365 WASHINGS WITH NEW "FINISH" SHOW NO EFFECT ON PATTERN OR LUSTRE

Tests run on "Greenwood" fine china, standard test pattern selected by dishwasher manufacturers and the china industry

Introduced as the first electric dishwasher detergent that *ends water spotting*, "Finish" now presents another important advancement in automatic dishwashing. New "Finish" protects both the overglaze patterns and elegant lustre of fine china. This start-

ling development makes your electric dishwasher more useful than ever; makes it practical to use your fine china oftener. Leading dishwasher manufacturers specify new "Finish" for superb results. Once you try it you, too, will suggest it to your friends.



FREE BOOKLET

Get your free copy of this informative booklet "Fine China and Your Electric Dishwasher." Write Economics Laboratory, Inc., St. Paul 1, Minn.

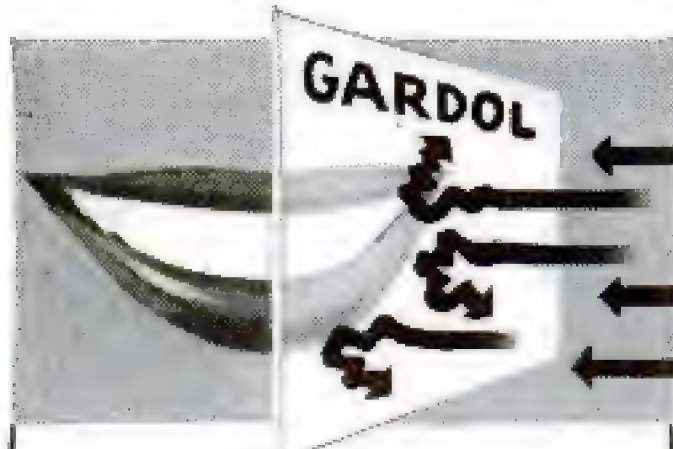


**WHETHER YOU BRUSH YOUR TEETH
JUST ONCE, TWICE, OR 3 TIMES A DAY...**

Colgate Dental Cream Gives The Surest Protection ALL DAY LONG!

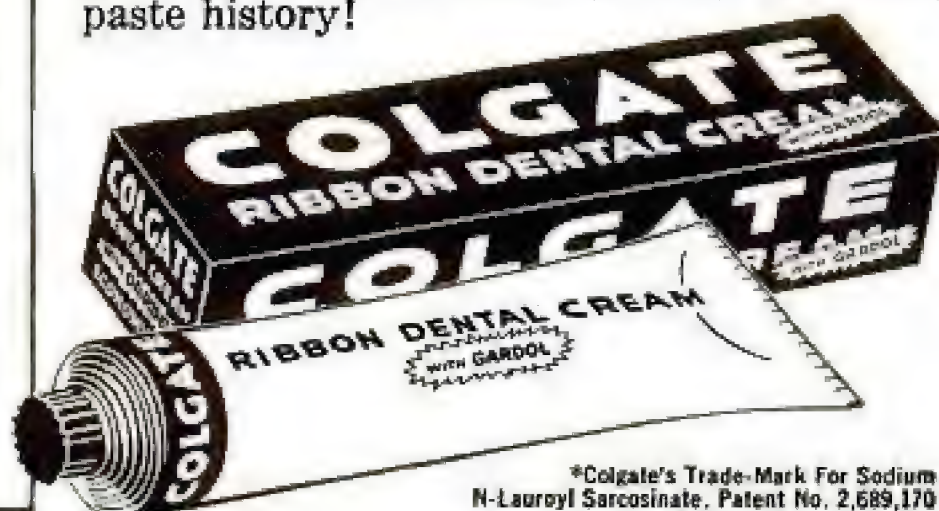


Because Only New Colgate Dental Cream
—Of All Leading Toothpastes—Contains GARDOL*
To Stop Bad Breath Instantly . . Guard Against Tooth Decay Longer!



Gardol, Colgate's patented new decay-fighter, forms an invisible shield around your teeth. You can't feel it, taste it, or see it—but Gardol's protection won't rinse off or wear off all day. That's why Colgate's—the only leading toothpaste to contain Gardol—gives the surest protection ever offered by any toothpaste!

Your dentist will tell you how often you should brush your teeth. But whether that's once, twice, or three times a day, be sure you use New Colgate Dental Cream with Gardol! Colgate's stops bad breath instantly in 7 out of 10 cases that originate in the mouth! Fights tooth decay 12 hours or more! In fact, clinical tests showed the greatest reduction in tooth decay in toothpaste history!



*Colgate's Trade-Mark For Sodium N-Lauroyl Sarcosinate, Patent No. 2,689,170

**Every Time You Use It...New Colgate Dental Cream
CLEANS YOUR BREATH WHILE IT GUARDS YOUR TEETH!**



POOR RICHARD'S ACCOLADE

Ambassador to Italy Clare Boothe Luce received the Gold Medal of Achievement from Philadelphia's Poor Richard Club, named after Ben Franklin's fictional character. In a speech Mrs. Luce warned that allied nations, if deprived of U.S. markets, might trade with Red countries.



ARTHUR'S ROMANTIC TRIUMPH

After a conjugal trip to Miami arranged by her boss, Arthur Godfrey, Singer Dorothy McGuire (*left*) took four days to think it over, decided to stay with her husband Sgt. John Brown (*right*), recently returned from Korea, and to ditch her former wooer, the singer Julius LaRosa.



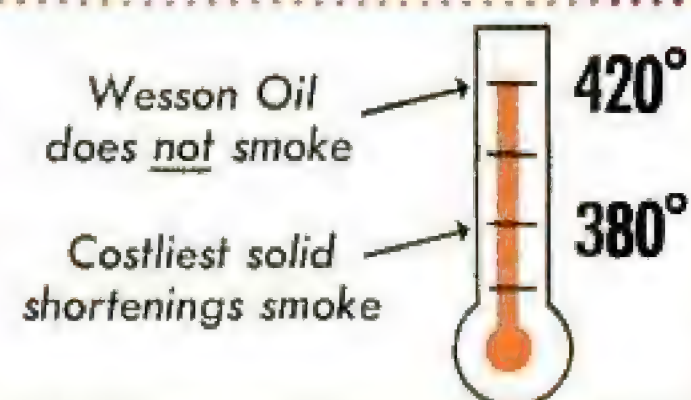
SUGAR'S FRUSTRATED COMEBACK

Trying a comeback, Sugar Ray Robinson (*left*) ducked a few punches but lost to Tiger Jones. Noting that this ended Ray as a money-maker for promoters, N. Y. *Mirror's* Dan Parker commented, "Someone must have sent the word . . . no more monkeyshines until the heat's off."

This is the safer Wesson way to have delicious fried foods...



See how much higher you can heat Wesson Oil than the costliest solid shortenings—and still Wesson does *not* smoke or burn.



Smoke can mean your shortening is breaking down. Then it becomes hard to digest and harms fresh food flavors. Wesson's *extra margin of safety* means you are surer always of *digestible* fried foods with fresh, tempting flavor.

Wesson is easier, too! Pours from bottle to skillet. No digging out shortening. No melting and no waste. Wesson frying is thrifty. You pour only what you need. In all the world, there's no oil so light, so safely digestible and so popular as Wesson. How pleasant to know that all the good foods you fry in Wesson just couldn't be better tasting or better for your family.

SPECIAL WESSON OFFER!

3 NYLON STOCKINGS

(A Pair and a Spare)

SHEER 60 GAUGE 15 DENIER
 PROPORTIONED FOR EXACT FIT

Guaranteed First Quality. Sheer, glamorous nylons made for *long* wear. Color: Muted Beige, for the new season look. Slim, pencil-line seams with trim, hug-tight heel. Fully proportioned from top to toe for true, personal fit. This exceptional value is made possible only by exclusive arrangement with one of the world's largest makers of quality full fashioned hosiery.

Allow up to 4 weeks for delivery.



\$2.42 Value!

ONLY \$1.00

AND A WESSON LABEL

USE THIS ORDER FORM

Wesson Oil, Box 1028, New York 46, N. Y.

Enclosed is \$1.00 in cash and 1 Wesson Oil label. Send me, postage prepaid, NYLONS in size I have circled.

| | | | | | | |
|--------|----|---|----|----|-----|----|
| Short | 8½ | 9 | 9½ | | | |
| Medium | 8½ | 9 | 9½ | 10 | 10½ | 11 |
| Tall | | | 9½ | 10 | 10½ | 11 |

Name.....

Address.....

City.....Zone.....State.....

Offer expires Dec. 31, 1955. Offer void in states, cities, or municipalities where taxed, prohibited, or otherwise restricted. Offer good in continental United States and Hawaii.

AMERICA'S FAVORITE—

for Frying, Salads,

Chiffon Cakes,

Stir-N-Roll Pie Crust

and Biscuits

Wesson Oil



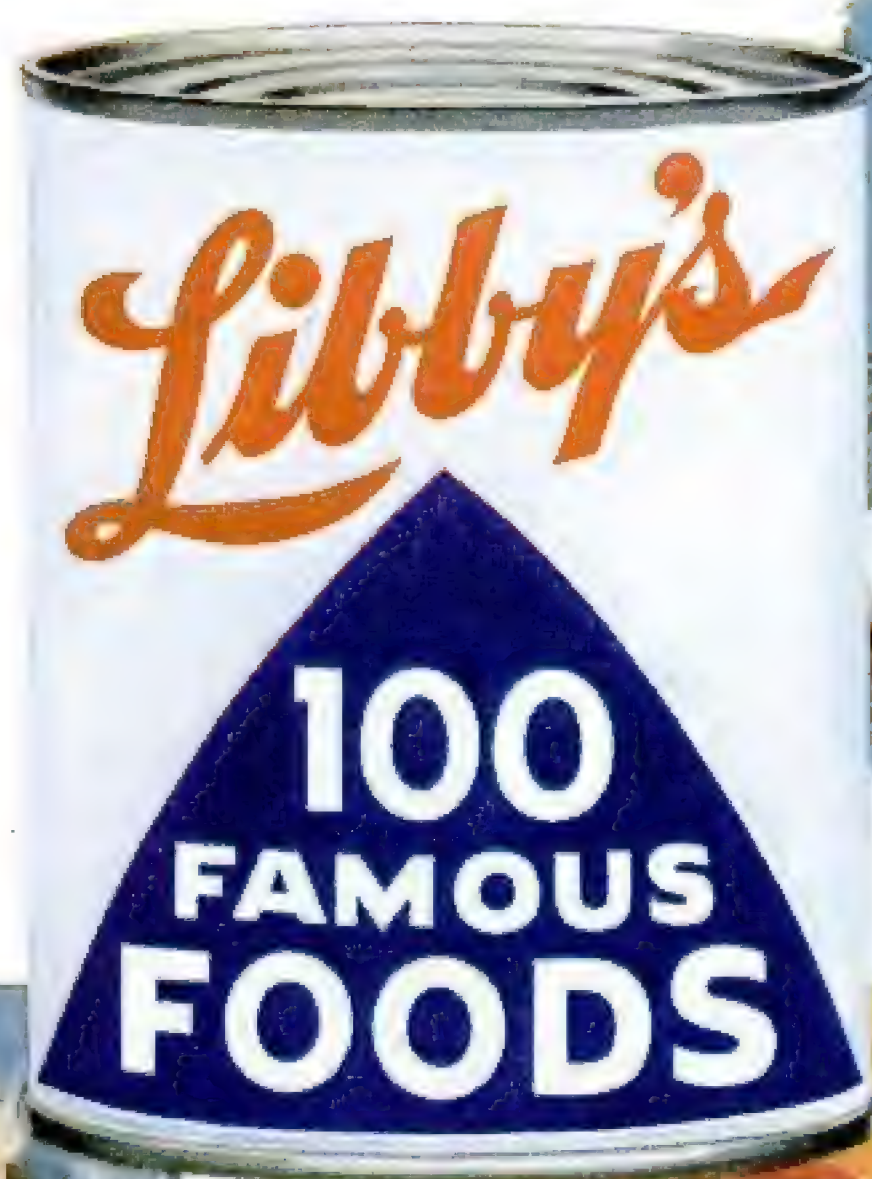
You'll be "Queen of Thrift" during

LIBBY'S BEST BUY DAYS

AT FOOD STORES
January 27 to February 26

When you dip into the food budget, you want to make every penny count. And you'll do just that if you'll stock up now — during Libby's Best Buy Days—on Libby's famous-for-quality fruits, vegetables, juices, meats, relishes. Shop where you see Libby's displays. You'll be queen of thrift!

Libby, McNeill & Libby, Chicago 9, Ill.



Thrill your Valentine with the gift that gathers more gifts!



Modern chest in blond oak with convenient, self-lifting tray. Model #3121. Also in walnut, #3122; and in Seafoam mahogany, #3151. SALE PRICE \$49⁹⁵*



VALENTINE SPECIAL! "Save \$10" LANE CEDAR HOPE CHESTS!

YOU COULDN'T CHOOSE a more heart-quickening Valentine for your sweetheart or your daughter—than a Lane Cedar Chest!

Once she has her Lane, all sorts of trousseau treasures come into its safekeeping—as family and friends add their gifts to her own happy collection! A Lane Cedar Chest will keep her precious possessions freshly new and fragrant—safe from moths and dust—as no other storage

method can! And just one nice garment saved from moths can pay for a Lane!

Lane is the ONLY pressure-tested, aroma-tight cedar chest. Made of 3/4-inch red cedar in accordance with U. S. Government recommendations, with a free moth-protection guarantee, underwritten by one of the world's largest insurance companies, issued upon proper application. Helpful hints for storing are in each chest. The Lane Company, Inc., Dept. L, Altavista, Va. In Canada: Knechtels, Ltd., Hanover, Ont.

ALSO MAKERS OF LANE TABLES

*\$5.00 higher in the West—slightly higher in Canada. Over 100 styles and finishes.



BEDROOM

Streamlined Modern chest in walnut and paldao wood. Self-lifting tray. Lid has receding hinges. Model #3125. SALE PRICE \$49.95*



LIVING ROOM

Space-Saver chest. Maximum storage in small space. Pearl mahogany. Drawer in base, #3124. In oak, #3136. SALE PRICE \$59.95*



FOYER

Eighteenth-Century chest in mahogany with drawer and tray. Model #3126, (Lane Table #150). CHEST SALE PRICE \$59.95*



LIVING ROOM

Modern Space-Saver chest in blond oak with 2 sliding shelves. Model #C-130, (Lane Table #257). CHEST SALE PRICE \$69.95*



BEFORE REMOUNTING, TIARA CONTAINED 79 EMERALDS AND 1,015 ANTIQUE-CUT DIAMONDS SET IN GOLD AND SILVER

Napoleonic Tiara Is Torn Up

Throughout the sharp turns of history, few important royal relics ever reach public hands with their pedigrees intact. One glittering exception is the emerald and diamond tiara which Napoleon presented to his second wife, Marie-Louise of Austria, when she bore him a son in 1811. More elaborate than the diamond crown he had given the childless Josephine, the Marie-Louise tiara outlasted Napoleon's empire and remained

safe in the hands of the Habsburgs. Last year it was finally sold to New York jewelers Van Cleef & Arpels. Its diamonds, outmoded by new ways of cutting gems to give greater brilliance, are being kept in the original shell. But the major emeralds have been reset (*below*) into a half-dozen spectacular pieces. The smaller emeralds will be sold individually, enabling anyone to acquire a bit of imperial history for as little as \$300.

NEW PLATINUM SETTINGS FOR TIARA'S GEMS COMBINE LARGEST HISTORIC EMERALDS WITH MODERN FULL-CUT DIAMONDS. THESE PIECES COST \$1 MILLION







STRIPPED TOWER, bent and denuded of balloons by tricky Bangkok winds, marred opening day.



STRIPED GIRL in bathing suit brought thoughtful looks to Thai faces. Model is an American.



TOUCHED THAIS award a first prize to USIS's James Meader (left), Commerce's Robert Warner.

AMERICA TRIUMPHS AT BANGKOK FAIR

Balloons, bathing suits and Cinerama help the U.S. take a first prize at Thailand's international fair

While the U.S. stood aside, the Soviet Union has been using the world's trade fairs to peddle its politics with exhibits that are shrewd mixtures of commerce and propaganda. But last month the U.S. abandoned its snooty attitude and moved actively into combat in Bangkok, Thailand. Because the American entry in the fair, designed by Worthen Paxton, was a last-minute decision and had to be hastily organized, it came close to disaster. A lovely tower of balloons, major feature of the exhibit, blew down because of freak wind conditions. A steam fountain that was to have bravely billowed up in graceful clouds managed only to puff fitfully.

But the balloon tower was rebuilt, lower but lovely still, and the U.S. went on to take first prize for original design at the fair. Crowds came to gape at themselves shown on a television screen, at toy electric trains operating over a complicated track layout. The big show-stopper was Cinerama, which packed the 2,000-seat open-air theater twice nightly, scaring and delighting the audiences. Bangkok was a trail-blazing effort for the U.S., which would now bring more experience to its exhibits at trade fairs elsewhere. And at Bangkok the Russians, who last year won a top prize at the fair, declined competition and failed to appear.



TRIUMPH ON SCREEN helped save the day for U.S. In an open-air theater a Cinerama program proved so popular that outside Thailand the Communists be-

stirred themselves and foreign correspondents in Bangkok received angry letters denouncing Cinerama as "an inferior imitation of a 15-year-old Soviet invention."

When Your TV Set Needs a New Tube

Insist *on...*

***No matter what kind of
set you own, make it a better set
with a new, factory-fresh
RCA Picture Tube!***

Yes, it's really true—a new RCA replacement tube can actually outperform the picture tube that came with your set. RCA scientists and engineers, who pioneered so many of the outstanding developments in the TV you enjoy today, have now produced picture tubes of such outstanding clarity, brilliance and depth of image that you will be amazed at the performance of your present TV set. Now you can see TV pictures with a fidelity you never dreamed possible.

Ask your local TV serviceman to replace your worn or burned out picture tube with a new RCA—there's one made for virtually every set on the market today. Best of all, premium RCA picture tubes—and the vitally important RCA receiving tubes—cost no more than other tubes. So, why settle for anything less than RCA PERFECT teleVISION?

THE PICTURE TUBE IS THE EYE OF YOUR SET



RADIO CORPORATION of AMERICA
TUBE DIVISION

HARRISON, N. J.

CLEARER



Because RCA's electron gun pinpoints the details on your screen.

SHARPER



Because it gives you a screen coated with billions of finest phosphorescent particles.

LONGER LIFE



Because of a series of scientific quality controls during each manufacturing step.

See Caesar's Hour and Producers' Showcase
Monday nights on NBC Television.

RCA PICTURE TUBES

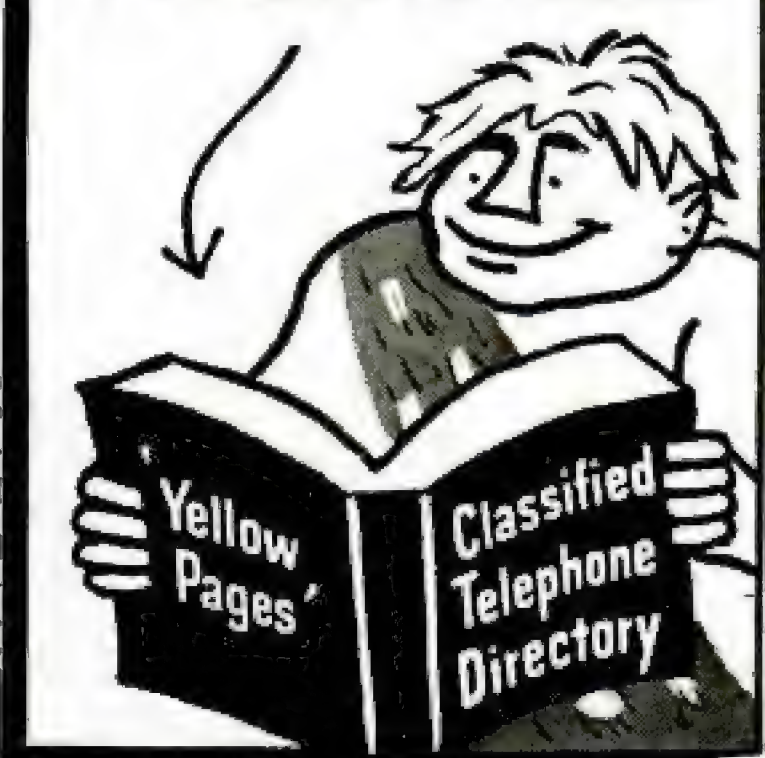
FOR PERFECT TELEVISION



Looking for
Something?



TYPEWRITERS



FROM PRINTERS
TO TYPEWRITERS
WHATEVER YOU NEED

Find It Fast
In The
'Yellow Pages'



SCIENCE



GUIDED BY A THERAPIST, OLSON GRASPS A TOOTHBRUSH IN MECHANICAL GLOVE BY PRESSING BUTTON (RIGHT)

HAND WITH MECHANICAL GRIP

Glove made of toy train parts gives motion to boy's paralyzed fingers

For the first time since he was almost completely paralyzed by a broken neck suffered in an auto accident two years ago, 18-year-old Merlin Olson is taking a great stride toward physical self-sufficiency—he is grasping something with his hand. The reason for his new-found skill lies in a metal glove which fits over his inert fingers. Merlin has partial use of his arms. When he leans on a button in a control

box, wires running to the glove draw his index finger against his thumb. The glove was invented by Charles Giaimo, plant manager of the Lionel Corp. who constructed the first model out of electric toy train parts. Tests at New York University's Institute of Physical Medicine and Rehabilitation have proved the gloves so practical that Lionel plans to produce and sell them, non-profit, for \$125 apiece.



ON THE PHONE, he holds receiver with glove. Previously somebody else always had to hold receiver for him.



A SLOW SCRAWL is the best Olson can manage with a pencil, since he cannot control the movement of his wrist.



PERFECT BUTTERSCOTCH PIES IN HALF THE TIME!

1. Lip-smacking, buttery, butterscotch pie!
Who could ask for anything more?
2. Couldn't be easier! The filling takes just about 5 minutes to cook.
3. For perfect pies or puddings you can't beat Jell-O Pudding and Pie Filling. Be sure to try some, soon!



Jell-O is a registered trade-mark of General Foods Corp. Copr. 1954, General Foods Corp.



Floor: "Sequin" Inlaid Linoleum. Wall: Cork Tile. Room-divider facings and shelves: Cork Tile.

Gold Seal Inlaid Linoleum—the floor with the best pattern choice. In an almost seamless sweep (much easier to keep clean), it can make your rooms glow with color, and serve as a quiet, comfortable basic floor that reduces foot fatigue. Gold Seal is America's oldest and finest inlaid linoleum—the *only* linoleum with a built-in backing to save installation costs. It's made by a unique manufacturing process that gives it great durability and resilience. By-the-yard, 6' wide. Choice of 81 inlaid patterns costing only about **34¢** sq. ft.; some in 9" x 9" tile.



Floor: Ranchile Linoleum. Wall: "Bermuda Hues" VinylTile. Shelves: "Bermuda Hues" VinylTop.

Gold Seal Ranchtile—the *only* genuine inlaid linoleum that's been developed and proved for installation over ground-level concrete, with or without radiant heating. Instead of hard, noisy, brittle tiles that cause great foot fatigue, you can now have quiet, comfortable, resilient *linoleum* in every room you own. And this is a special linoleum—a denser, smoother, longer-wearing linoleum that resists soiling better, cleans more easily, than any other resilient tile. Choose from 9 textured patterns in 9" x 9" tile. Only about **37¢** sq. ft.

Today's best
guide to

floors and walls



Reception floor: Rubber Tile. Walls, cabinets, office floor: Cork Tile. Desk top: "Bermuda Hues" VinylTop.

Gold Seal Rubber Tile and Gold Seal Cork Tile—the quietest pair of all! Unbelievably resilient and comfortable underfoot, they soak up sound, deaden foot-steps. **Gold Seal Rubber Tile** has a real luxury look with 21 of the clearest, truest colors in the field. Standard gauge about **46¢** sq. ft.; $\frac{1}{8}$ " gauge about **65¢** sq. ft. . . . "Tight-bond" **Gold Seal Cork Tile**, made by a special process, has *un-surpassed resistance to soiling*. $\frac{1}{8}$ " gauge about **54¢** sq. ft., $\frac{3}{16}$ " gauge about **67¢**.



Floor: "Veltone"® Inlaid Linoleum with Feature Strip. Walls: "Brick" Congowall. Counters, shelves: VinylTop.

Gold Seal Inlaid Linoleum (commercial weight)—the burlap-backed, $\frac{1}{8}$ " gauge linoleum with a proven record of past performance. Many installations are still giving top service after 30 years of hard traffic. (Their owners still praise their ease of maintenance.) Then, too, there isn't a handsomer way of showing off your wares. For beauty, for comfort, for service, pick Gold Seal Linoleum! 35 patterns—about **44¢** sq. ft.—some in 9" x 9" tile.



Floor: Vinylflor with "Bermuda Hues" VinylTile insets. Counter, table: VinylTop. Wall: Congowall.

Gold Seal Vinyl Inlaid and Congowall—the team that cleans without scrubbing. Grease, acids, alkalis and grime just seem to *slide* off the surface of the vinyls; that's why they make bright, light colors so practical. Flexible and inlaid, these true vinyls (in 28 patterns) will wear for years! They cost about 30¢ sq. ft. . . . Put up a wall at a time (not a tile at a time) with **Gold Seal Congowall**. It is the enamel-surface wall covering that looks, feels and cleans like tile—that never needs refinishing. And it costs only about 15¢ a sq. ft.



Floor: Congoleum rug (#424). Wall: "Brick" Congowall. Desk top: VinylTop. Bulletin Board: Cork.

Gold Seal Congoleum—the one and only Congoleum—the best-known floor covering in the world! Congoleum offers you the thriftiest way of adding color and sparkle and ease of maintenance to any room. It lies flat without fastening—you can move it from room to room, or take it with you when you move. You'll enjoy its beauty for years; tests show that Congoleum outwears other enamel-surface coverings by 1/3! Choose rugs or by-the-yard in 71 handsome patterns with clear, true, fade-resistant colors. Congoleum is only about 12¢ sq. ft.

for home or business



Floor: Vinylbest Tile. Walls: "Bermuda Hues" VinylTile. Tables, counters, door: "Bermuda Hues" VinylTop.

Gold Seal Vinylbest Tile—the floor that stands up to abuse . . . takes the roughest treatment in its stride. Vinylbest has the grease, acid and alkali resistance of all vinyls, the easy maintenance of linoleum. It can go on any ground level, over any surface. The 17 colors (clear and true as those of rubber tile) were specially selected as the ones most apt to make customers and friends feel at home. $\frac{1}{16}$ " gauge about 32¢ sq. ft.; $\frac{1}{8}$ " about 62¢ sq. ft.

*You get the finest
choice of all in . . .*



Meet your Gold Seal dealer—look for this blue and gold plaque. It identifies the man with more products, patterns, ideas—more help for you! Find his name listed under "Linoleum" in your classified phone book. And remember! Every Gold Seal product carries the famous **Gold Seal guarantee of satisfaction or your money back!**

INLAID LINOLEUM • VINYLFLOR • VINYLTOP • CONGOLEUM® • CONGOWALL® • RANCHTILE®
CORK TILE • LINOLEUM TILE • VINYL TILE • VINYLBEST TILE • RUBBER TILE • ASPHALT TILE

CONGOLEUM-NAIRN INC., Kearny, N. J. Copr. 1955

IF YOU CAN BRUSH AFTER MEALS, THAT'S BEST—IF NOT

Here's a toothpaste for people who can't brush after every meal



***JUST ONE BRUSHING
destroys decay- and
odor-causing bacteria!***

***Can't brush after every meal? One Gleem brushing
destroys most decay bacteria!***

If you, like most busy people, can't brush after every meal, use Procter & Gamble's new Gleem with GL-70. Just one Gleem brushing destroys up to 90% of bacteria (major cause of tooth decay) and *wipes out their enzymes!* Only Gleem has GL-70 to fight decay . . . helps stop decay action with each brushing.

**Only Procter & Gamble's new
GLEEM has 
new cleaner and decay fighter!**



Mouth stays fresh all day with one Gleem brushing!

Just brushing before breakfast with Gleem gives most people *all day* protection against mouth odor. Scientific tests prove brushing with pure, white Gleem stops most unpleasant mouth odor so effectively the mouth stays fresh *the whole day!*

Kids just love Gleem's taste!

Proved by flavor tests! Youngsters say new Gleem's breezy flavor is swell! So it's easy to get them to use Gleem regularly. And for children, regular after-meal brushing is the only *proven* way to reduce tooth decay. Let Gleem help *your* child fight decay!



ONLY GLEEM has GL-70...GLEEM fights decay by getting at the cause!

HOMELY TOUCH is imparted early in program when Voluptua drops on to a huge hassock, takes off her shoes, invites men at home to do the same.

ODD ANGLES are taken by both Voluptua and the camera. At her request the TV studio crew once wore pajamas to add a realistic touch to the show.



LOVE ON A LATE SHOW

TV announcer sheds clothes to hold her audience

Following hot on the heels of a ghoulish girl named Vampira (LIFE, June 14) who has been introducing horror movies to late-at-night TV viewers in Los Angeles comes a dream boat named Voluptua who gets that town's lonely men in the mood to lap up old love scenes on film. Billed as the *Living Goddess of Love*, Voluptua starts by urging each man in her audience to get out of his shoes, loosen his tie, and be her very good friend. Between segments of moist celluloid love Voluptua, whose real name is Gloria Pall and who was Brooklyn's Miss Flatbush in 1947, does some disrobing of her own. By mid-program she is down to a negligee. Then, after reading her sonnets and paying tribute to famed lovers, she slips into a nightgown, climbs into bed, throws a kiss at her men and calls it a night.

ONLY Kentucky Club Gives You Guaranteed Fresh Smoking Tobacco



LOOK—it's the new Kenseal Foil Pouch—in handsome regimental stripes of assorted colors. Just open the new Kentucky Club package and there it is—filled with fresh Kentucky Club. Fits your pocket as comfortably as a soft glove. Contains same quantity and quality of tobacco as in pocket tin . . . yet at no increase in price.

Filled Kenseal Pouch Keeps Tobacco Fresh

No danger of getting dry, stale smoking tobacco when you buy Kentucky Club in this new-type package. It comes to you *guaranteed fresh*. Its Kenseal Foil Pouch is filled at the factory with fresh Kentucky Club; keeps your tobacco fresh to the last pipeful.

Men who used to pay fancy prices for pipe tobacco now find that Kentucky Club gives them a smoother, better-burning smoke. *It's always fresh.* It's an honest blend of top-quality

White Burley. It's mild and mellow—smooth and satisfying—with a grand taste and aroma. Valuable coupon entitling you to big savings on fine pipes in each package.

***GUARANTEED FRESH**—Kenseal Pouch seals in full freshness and fragrance of Kentucky Club. Replacement or refund of money if not fresh at time of purchase.

Kentucky Club
WHEELING, WEST VIRGINIA

WIN THIS THOROUGHBRED RACE HORSE

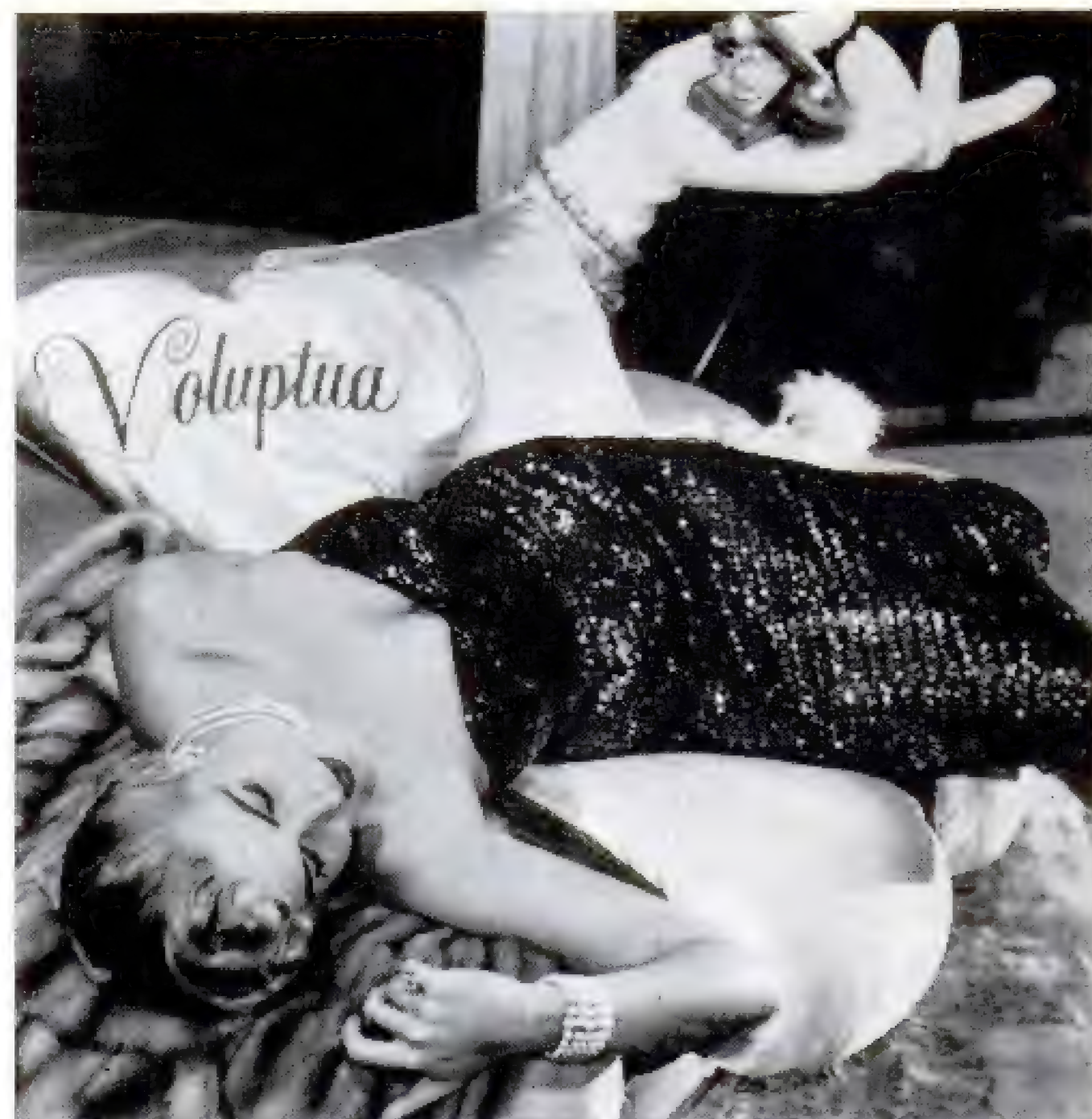


Granddaughter of Sir Gallahad III

The Kentucky Club Annual "Derby Day" Contest brings you an easy way to win a race horse—a chestnut Thoroughbred filly, granddaughter of Sir Gallahad III. Ted Atkinson helped select her. *Just name her and she's yours.* Ask for free entry blank at your favorite tobacco counter.

SPECIAL OFFER—Send for beautiful full-color picture of 1955 Kentucky Club prize filly. Size: 20 x 15 inches, suitable for framing. Gives pedigree. Mail 25¢ with name and address to: Kentucky Club, Wheeling, West Virginia, Dept. LM-1.

Love on a Late Show CONTINUED



GOLD TELEPHONE, on which she accepts compliments and proposals on show (KABC-TV, 9:30 P.C.T., Wednesdays) is cradled in beckoning hand.



TREASURED POSSESSION exhibited on the show is Voluptua's *Book of Secrets* in which she says she keeps "innermost secrets of the great lovers."



PAPER HEARTS are strung across studio as Voluptua, now in a negligee, starts plying her listeners with sentiments like "home is where the heart is."

CONTINUED ON PAGE 58



You're missing half the fun of your camera...

if you're not getting exciting flash shots like these

Does your family stop living when the sun goes down? Not a bit of it! Some of your happiest times, some of your fondest memories, occur indoors—the baby's bath . . . the gang popping corn around the hearth . . . a hundred others you don't want to miss.

A modern flash camera can get *all* these pictures . . . and get them just as surely and easily as the snapshots you take outdoors in the daytime. Just slip on an inexpensive flashholder, pop in a flash bulb, and you're ready to shoot. That's all there is to it—nothing new to learn. Start soon to enjoy this wonderful new world of picture taking—with flash.



If your present camera cannot take flash snapshots

look at this simple flash camera

The Brownie Hawkeye is the world's most popular flash camera. Over 5,000,000 now in use. Simple to operate—the lens is pre-focused for you at the factory. Gives you crisp, clear black-and-white pictures indoors or out, day or night—thrilling full-color pictures, too.

BROWNIE HAWKEYE CAMERA \$6.95 Flashholder \$4

Prices are subject to change without notice

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DON'T MISS "NORBY"—KODAK'S NEW FAMILY TV SHOW—EVERY WEEK—NBC-TV



"What's this new Quaker State Super Blend I've heard about?"

Super Blend is the new year-round oil with that *endurance* and super quality exclusive to Quaker State products. It is a *high compression* oil, specially blended for modern cars. It is a *high-detergency* oil—keeps engines clean, free from sludge and varnish—more powerful, better performing. Saves on gas, too. Scientifically super-refined from finest 100% Pure Pennsylvania Grade Crude Oil. Try it!

There is a Quaker State Motor Oil to suit the requirements of every make of car and for every type of service. Ask your dealer.



QUAKER STATE OIL REFINING CORPORATION, OIL CITY, PA.
Member Pennsylvania Grade Crude Oil Association



FAST CHANGE is made during program when Voluptua ducks behind a translucent shoulder-high screen and reappears in a less formal ensemble.



FINAL CHANGE Voluptua made on her first TV show was into a man's pajama top. Censor now insists that she sign off in a full-length nightgown.



"What goes on here?"



"Empty as a drum!"



"Well! Someone's going to hear about this."



"Mom—Just the one I wanted to see."



"Well what do you know—a full box."



"Guess I'm not mad after all."

It's a wise mom who's always one package ahead of the family appetite. Because, every morning, more families run out of Kellogg's Corn Flakes than any other cereal. Must be because this great, good grain food tastes best to more people—always has, still does. So next time you buy any cereal of any kind, pick up a spare package of Kellogg's Corn Flakes.

FRESH FROM
Kellogg's
OF BATTLE CREEK



CZARINA MARIA ALEXANDROVNA

CZAR ALEXANDER ROMANOV

VANISHED SPLENDOR OF RUSSIA

**A young czar took over the throne
100 years ago with pomp and hope**

All the splendor and robust pageantry of a long-vanished Russia was summed up 100 years ago in the paintings reproduced on these pages—a series done to commemorate the coronation in 1856 of Alexander II as czar of all the Russias. The paintings were put together in a souvenir album, a copy of which belongs to Prince Serge Belosselsky of New York, once a captain under Nicholas II, the last of the czars and grandson of the ruler memorialized by the album.

Alexander's coronation was an event which filled all Russia with excitement and rejoicing and the promise of better times. A man of progressive political ideas, he was looked on by the frustrated peoples of Russia as the man who would finally end the country's backwardness and lead it in a liberating social revolution. After the burst of splendor which marked his crowning, Alexander settled down to fulfill the promise he brought. He succeeded only in part. In 1861 he freed the serfs, earning the title, "Czar Liberator." But because of complicated laws peasants still had trouble buying their own land. Yet Alexander's reign was a golden age of culture—the time of Turgenev, Dostoevski and Tolstoi, of Musorgski and Tchaikovsky. In 1881 Alexander was killed by a revolutionary's bomb, and the hopes died with the repressive measures of his successors, whose dynasty ended with the Bolshevik seizure of power.

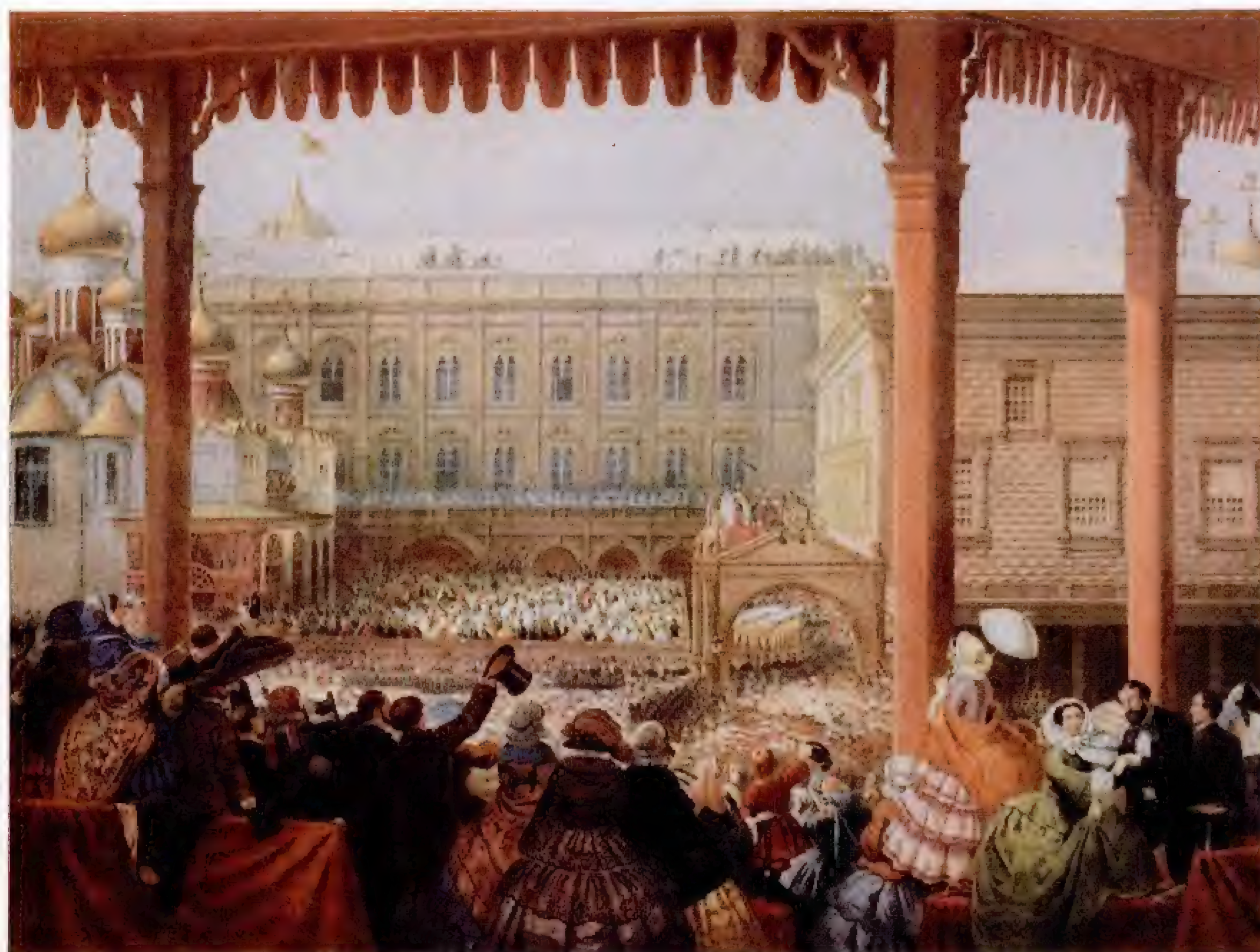


CORONATION IS PROCLAIMED in Red Square just outside Kremlin walls (*right*) to crowd of peasants, monks, ladies, gentlemen, provincials and intellectuals. The her-



ald, announcing that crowning will take place in September, is mounted on white horse and escorted by czar's own bodyguard, the Chevaliers-Garde. In background at left is

many-domed St. Basil's cathedral built in the 16th Century. Statue at left is Russian hero, Kuzma Minin, pointing way to Moscow in 1612 to free it from Polish captors.



THE CROWNING took place in magnificent Uspensky cathedral. Here Alexander crowns czarina. He has already put on own crown, symbolizing power comes directly to him from God. Beside him are marshals, high chamberlains, chiefs of hunt.

ANOINTING with oil (*right*) is done by metropolitan of Orthodox church in "ikonostas," a sanctuary inlaid with icons of saints separating altar from rest of cathedral. But as symbolic head of Russian church, czar gave sacred bread to himself.

PRESENTATION of new czar to cheering people from "Krasnoi Kriltzo" or "red porch" of Imperial Palace followed the coronation. Alexander bowed three times to the throng. There is a deafening din as bells of Moscow's 1,600 churches ring out.



PINEAPPLES AND SAUSAGES

For the great event Alexander had come to Moscow from the capital at St. Petersburg, making a triumphal entry into the city on a prancing stallion followed by grand dukes and visiting princes on horseback and a long line of golden carriages containing the czarina and noblewomen. The coronation, a ceremony which lasted several hours, was followed by a banquet that lasted several hours more.

Then the festivities really got under way and stretched out over three weeks with many more dinners, balls and ballets until everybody was completely and happily worn out. In a generous, expansive mood after the celebrating, the czar gave out many titles, many promotions and decorations to his army officers and many reprieves or reductions of punishment to the inmates of the country's crowded prisons.



BANQUET FOR DIPLOMATS was held in Golden Room of palace while czar ate in nearby room (*opposite page*). Pineapples in epergnes on tables, imported probably from the West Indies, were admired as much as decoration as for taste.



A GALA PERFORMANCE for czar and czarina, sitting in the imperial box at the right, was given in the huge, glittering Imperial Theater four days after coronation. An unusual double bill included the opera *L'Elisir d'Amore* and ballet *La Vixandière*.





CZAR'S DINNER after coronation was served in Angulou Hall. He sits between his wife and mother on platform. Hovering in the room and just outside are several masters of ceremonies, carrying batons, who made sure protocol was observed.

EXUBERANT PEASANTS in the outskirts of Moscow were reported as throwing hats in air, dancing, climbing monuments and riding down a chute-the-chute built for occasion. Czar distributed free beer, sausage, beef and mutton carcasses.



VANISHED SPLENDOR

CONTINUED

BLAZING SKIES rent by spectacular fireworks ended the coronation festivities. Aristocrats watch from specially built stands while the peasants stand on the bare ground. The display, held before the cadet corps buildings where Russian army officers were trained, frightened horses but moved the populace to shouts of wonder.







There's something **"SPECIAL"** about Birds Eye Broccoli!



Say! Why not make
BIRDS EYE SUCCOTASH
your second vegetable!

1. Pour light cream sauce over cooked succotash in casserole, sprinkle bread crumbs on top, bake in oven until bread crumbs brown slightly. (see illustration.)
2. Stir sautéed, diced green pepper into cooked succotash. Gives that milky sweet corn and those delicious Lima beans a new taste ... and a new look!

Indeed, there's everything special about Birds Eye Broccoli.

Birds Eye's *the pick* of the finest, firmest broccoli grown. Trimmed by hand, cleaned CLEANER.

And Birds Eye Broccoli is quick-frozen *so fast* after it's harvested, it always tastes right out of the garden.

Try both kinds—full, green *Broccoli Spears* served with sauce, or butter—and *Chopped Broccoli* served "family style," or in quick casserole dishes. Both "*special*."



*Better buy Birds Eye and get that something **"SPECIAL"***

(*Costs no more!*)

Product of General Foods

CRAM CAMP FOR SKIERS

**U.S. hopefuls train at Sun Valley
to catch Europeans in the Olympics**

Not since they first became really interested in Olympic skiing 25 years ago have Americans produced an Olympic male gold medal winner. But they have been working hard to catch up to the Europeans. This year the National Ski Association opened a special camp at Sun Valley, Idaho and invited the country's top slalom and downhill prospects to come and train there. For three weeks the skiers spent long hours on the slopes learning new techniques, getting in shape for the March Olympic trials and giving the experts a chance to size them up. One of the hottest prospects was Buddy Werner, 18, who in this picture is showing off his skill in a bit of horseplay—making a big jump in the middle of what was supposed to be a straight downhill run.



MASTER AND DISCIPLES



SETTING AN EXAMPLE for young U.S. skiers, the world downhill champ, Christian Pravda

of Austria, speeds through slalom gate. He helped squad coach Barney McLean with instruction.



CARVING A TURN, Tom Corcoran uses "reverse shoulder," with leg muscles rather than swinging shoulders.



TWISTING through, Jill Kinmont, 18, 1954 U.S. slalom champion and one of nine girls at the camp, passes gate.



PRE-JUMPING on 60-mph downhill run, Mel Hoaglund, 18, leaps before hitting a bump to avoid losing control.

[CONTINUED ON PAGE 72](#)

Just your dish!

and absolutely **FREE**...



Special For
February Only

65¢ VALUE

This handy eight-ounce individual casserole of famous PYREX Bakingware in your choice of smart Lime or Flamingo has clear cover, costs you absolutely nothing...

when you buy this at regular price
... \$1.50



Don't miss out on this big \$2.15 value for only \$1.50 during February. You save 65¢!

GET YOUR FREE individual casserole—along with the two-quart casserole during February—while this special offer holds good. You can buy matching individual casseroles for all your family, too.

And see all the other colorful PYREX Bakingware pieces that save you time and work—all extra strong and resistant to high oven heat—all designed for baking, serving and storing in the same dish.

PYREX Bakingware not only simplifies your cooking—it makes dishwashing easier, too. Foods won't cling to its smooth, hard, non-porous surface.

Get these handy casseroles—and all the other PYREX Bakingware you need—at your PYREX Ware dealer's.

This beautiful two-quart PYREX Bakingware casserole also comes in Lime or Flamingo, has clear glass top, is wonderful for baking, serving and storing foods in same dish.

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WARE

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7-MINIT *Fluffy* FROSTING



NEW BOILED FROSTING
MADE WITHOUT BOILING!

Try 7-MINIT Fluffy FROSTING on your favorite Betty Crocker, Pillsbury or Swans Down Cake. So quick 'n' easy, you just add water to whip up mounds of the smoothest, creamiest, tastiest frosting ever! Perfect every time! Today, while this FREE* offer holds, discover what all leading cake mix manufacturers know—there's no better frosting than 7-MINIT Fluffy FROSTING.

HERE'S ALL YOU DO:

1. Today, buy a package of 7-MINIT Fluffy FROSTING, your choice, Vanilla or Chocolate Flavor and a package of Betty Crocker, Pillsbury, Swans Down or any other cake mix you choose, at your favorite grocery store.
2. Bake your cake. Then frost it with smooth, luscious-tasting 7-MINIT Fluffy FROSTING.
3. Write us a letter of twenty-five words or more telling how you and your family liked 7-MINIT Fluffy FROSTING. Be sure to print your name and address.
4. With your letter enclose the empty 7-MINIT Fluffy FROSTING package (Chocolate or Vanilla) and the top from your favorite Cake Mix box, showing price you paid. Mail to: 7-MINIT, Dept. FFO-L, 660 Madison Avenue, New York 21, N. Y.
5. Immediately, we'll send you the price you paid for your cake mix, not to exceed 40¢, in cash. Hurry! Limit one offer per family. Offer expires February 28, 1955.

*Under terms of this offer—cost of cake mix not to exceed 40¢.

CRAM CAMP CONTINUED

A SLALOM SLIP-UP



MISSING HIS TURN in a slalom run, 17-year-old junior skier Norris Dunham of Steamboat Springs, Colo. straddles a gate (top), drags it down (center), then flops in the snow.



Sealy 74th Anniversary year's biggest mattress sale

\$39⁹⁵
**ONCE
-A-
YEAR
PRICE**

And we mean BIGGEST! . . . because it's the only time in the whole year when this genuine Sealy Innerspring Mattress is yours at this budget-coddling price.

Year's BIGGEST VALUE, too, because *only* Sealy gives you Tru-balance FIRMNESS in a low-price mattress! Have the dollar-savings time of your life and get:

- Same high coil count as top-quality, luxury mattresses!
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- Same Tru-balance innerspring construction, for the healthful firmness pioneered by Sealy!
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- Matching box spring, just \$39.95!

Con-sealy-bed

"America's Most Wanted Double-Duty Furniture" is ONCE-A-YEAR SALE PRICED, too! Con-sealy-bed . . . superb sofa-by-day, full-sized-bed-by-night! . . . complete with TRU-BALANCE FIRM MATTRESS at tremendous savings! Exquisite decorator fabrics!

just **\$199⁵⁰**

slightly higher in Canada



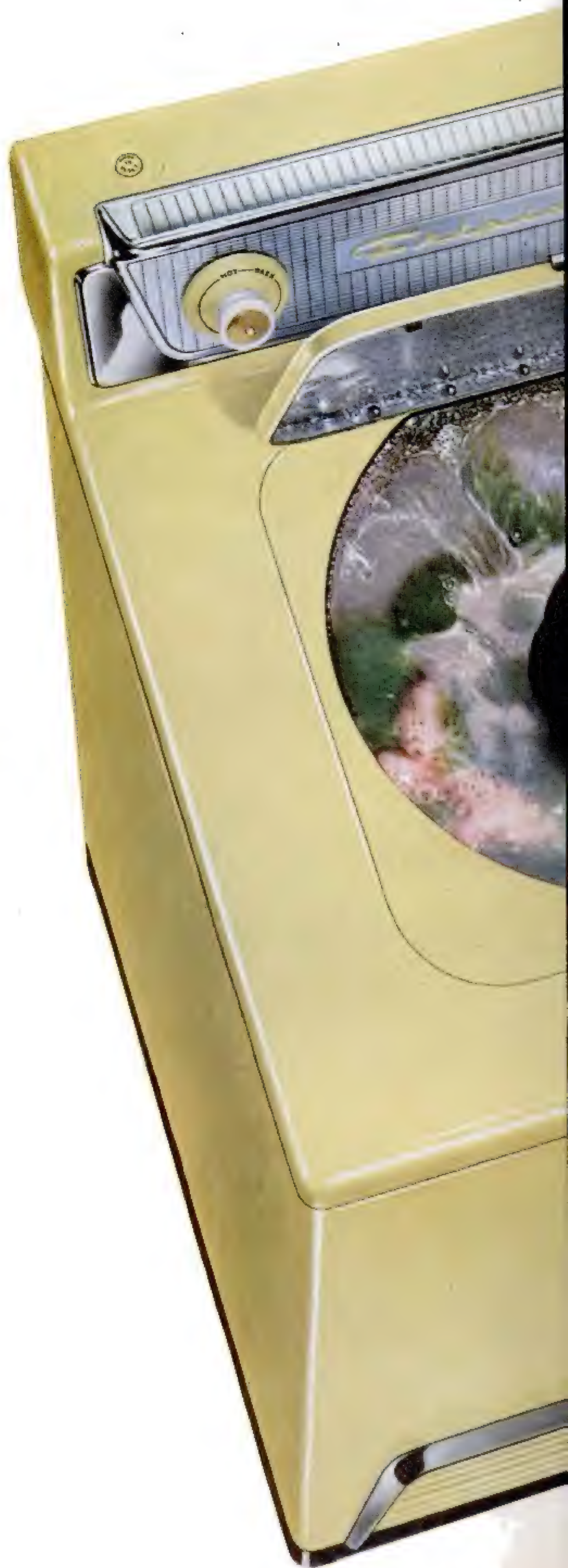
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Frigidaire's exclusive

Live- Water Washing

**gets clothes really clean
automatically
and with less soap and water**





**We stood beside you on washdays—
then created a unique Pulsator Action that releases
all the cleansing power in your soap or detergent!**

You wanted to get out all dirt . . . without pre-soaking . . . and with complete safety for even new miracle fabrics. And you wanted to do it with less soap and water. So Frigidaire developed the exclusive Pulsator action that makes soap and water work harder for you. Soap is fully dissolved, evenly distributed. Clothes stay under water right from the start so live, surging currents get out even ground-in grime. There's no twisting and wrenching, no lazy "lift and dip" washing. Float-over Rinsing carries dirt up, out and down the drain. You save 2 to 8 gallons of hot water per load over many makes—even more on small loads. You can save suds water for re-use if desired.

Spins out more water than any other washer! Exclusive Rapidry Spin leaves clothes near-dry; pounds lighter. Final drying is faster, clothes are far easier to handle.

Frigidaire Electric Dryers to match for fast indoor drying. No fading, no snagging. Clothes are fluffy, sweet smelling, never creased with hard-to-iron wrinkles.



Porcelain Pair — finest money can buy! All-over Lifetime Porcelain rust protection—inside and outside the cabinets, inside and outside tub and drum. Filtra-matic Electric Dryer eliminates need for venting or plumbing. Choice of Sherwood Green, Stratford Yellow, or snowy white exteriors. Imperial Washer \$3.06* per week. Imperial Dryer \$2.35* per week.



Thrifty Pair — priced with the lowest! Deluxe model with high-priced features! Lifetime Porcelain where it counts most. Washer is fully automatic. Electric Dryer has giant screen drawer to trap lint . . . adapts to 115 or 230 volts. Deluxe Washer \$2.65* per week. Deluxe Dryer \$1.83* per week.

**After minimum down payment. See your Frigidaire Dealer for exact terms.*

Frigidaire

Built and backed by General Motors

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Taste it, and this is your bacon for life! There's a fragrance about it before it ever leaves the pan that sets your mouth to watering. And the first bite is a revelation! Here's bacon as it *should* be—lean, tender, with a lusciously mild, sweet flavor only Wilson knows how to create. And whether you fry it crisp or fry it rare, every slice is a beauty. No wonder it's mighty hard to wait when there's Wilson Bacon for breakfast!



It's hard to wait when it's
WILSON BACON

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A GREAT STAR AGES GRACEFULLY

**Spencer Tracy begins 25th year
in kind of rugged role he likes**

In 1930, after she had seen her husband's first Hollywood screen test, Mrs. Spencer Tracy wrote her sister back east, "Spencer doesn't photograph very well. . . . For the present we are just forgetting about the talkies." Within the year aspiring Actor Tracy, already seamy faced and grim at 30, co-starred in his first film (*left*) and started a career that has spanned 25 years of movie stardom. In nine of these years he was one of the nation's top 10 moneymakers. His lumpy but lovable Irish visage (*see cover*) was combined with a subdued, competent, almost truculent style of acting which he once said was influenced by the performances of his old boss, the late George M. Cohan. Face and acting style won him two Oscars in a row (1938, 1939) and the ungrudging Hollywood title of "actor's actor."

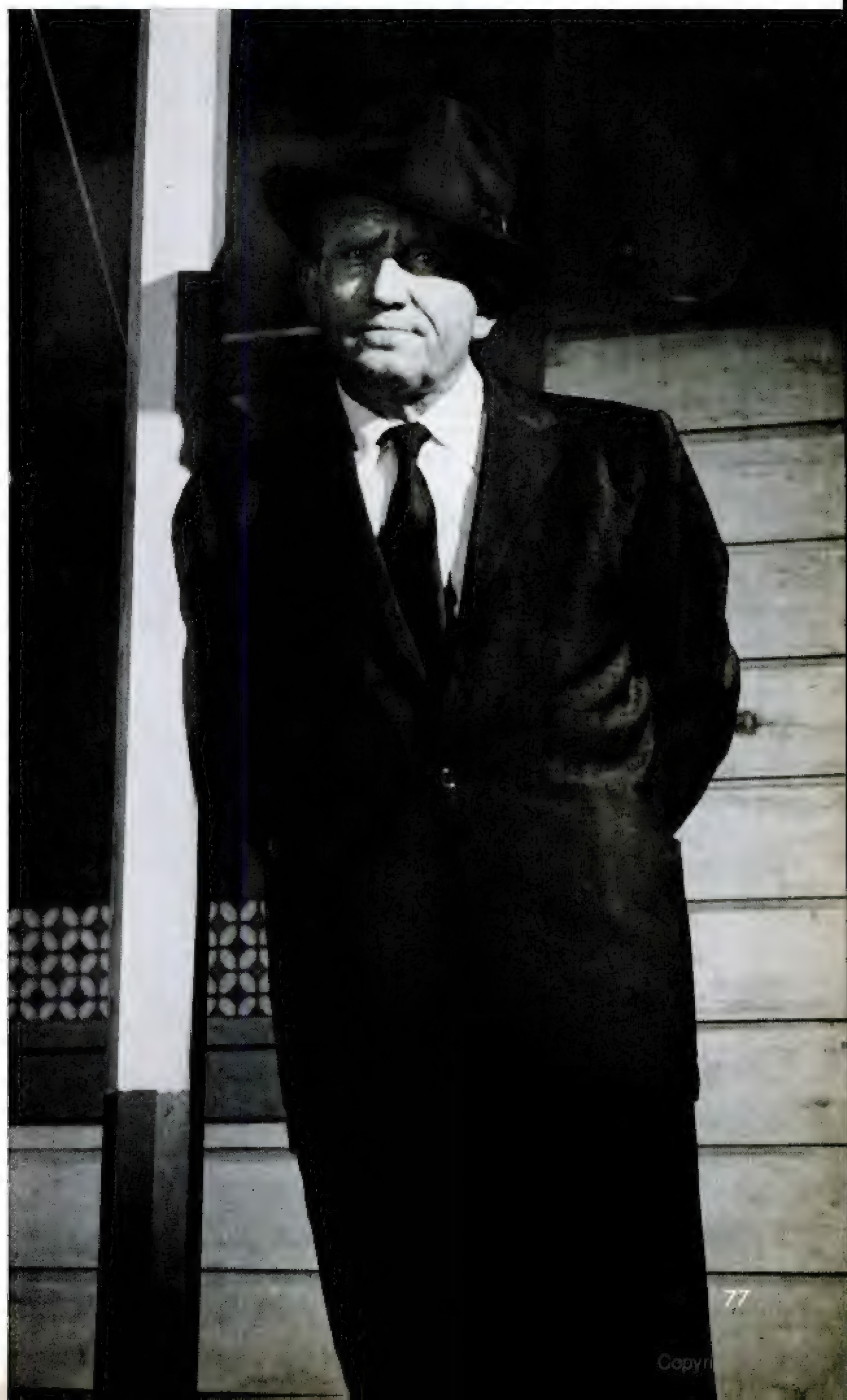
Though he has played with vast success opposite nearly every top female star in Hollywood (*p. 80*), Tracy has never been quite happy in romantic parts, preferring the role of the rugged hero fighting his way alone against insuperable odds. As such, he behaves outstandingly in his 58th film, M-G-M's *Bad Day at Black Rock*, in which, more rugged than ever as a mysterious one-armed stranger, he takes on and licks a whole town.



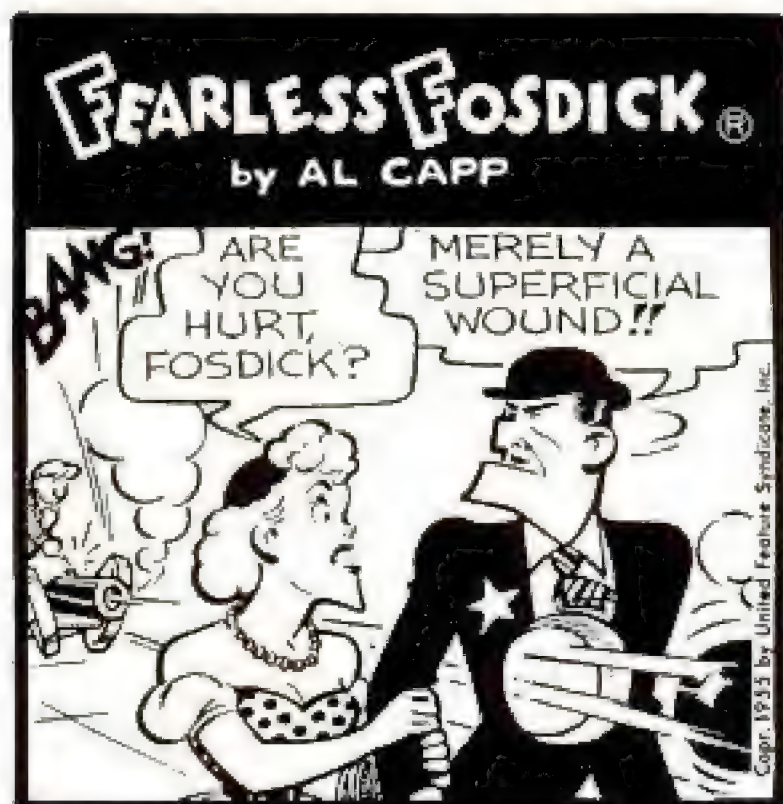
TRACY IN 1930 was a dapper convict in first film, *Up the River*, co-starring with another tough guy, Humphrey Bogart. Film was a spoof on *The Big House*.

TRACY IN 1955 glowers from a prop porch in the mythical desert town of Black Rock, whose villainous inhabitants are bent on annihilating him.

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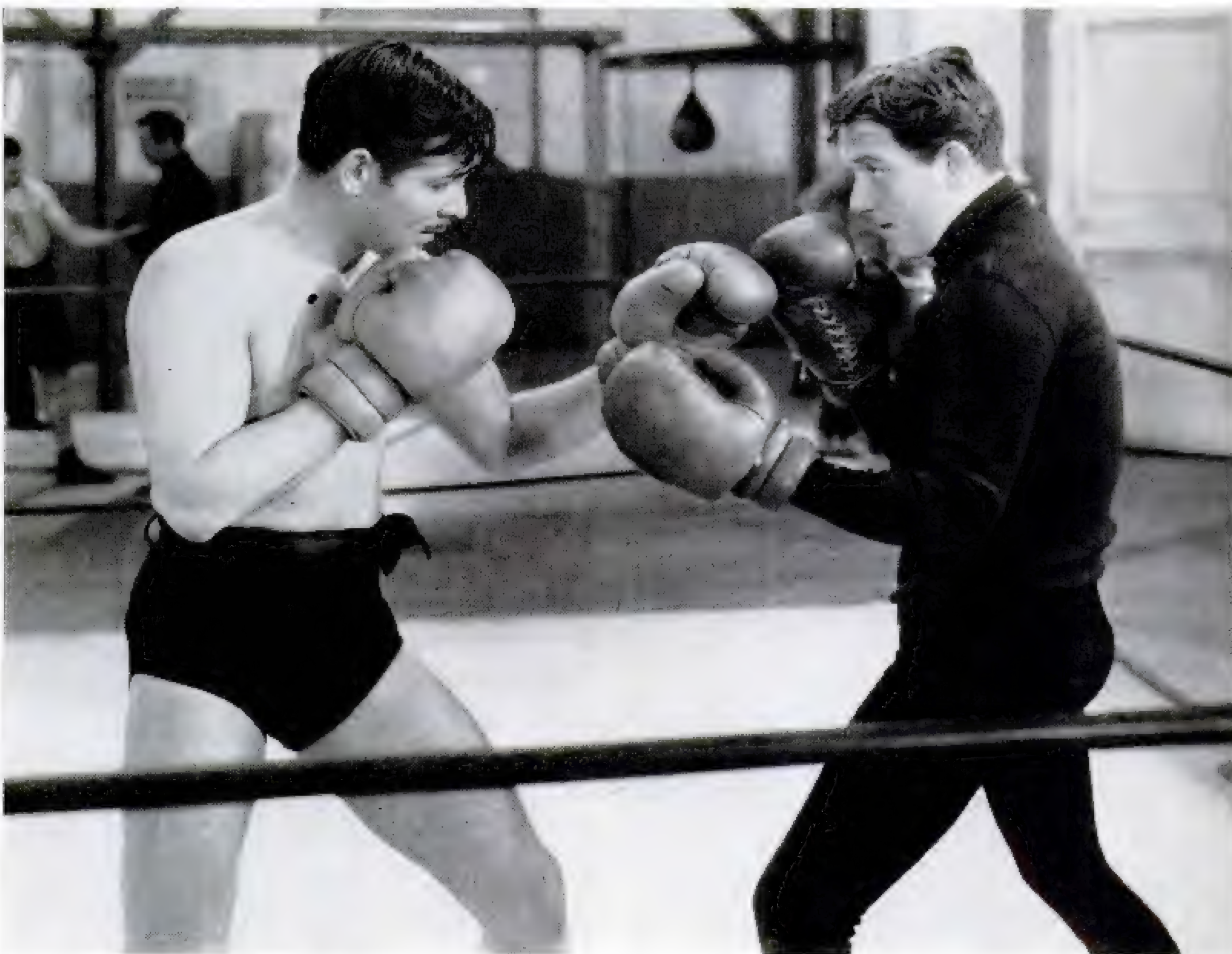
HE PROGRESSES FROM CONDEMNED



ACTOR'S RISE stemmed from Broadway role of Killer Mears (above), in *The Last Mile*, which sent Spencer Tracy to Hollywood in 1930. In an assortment of romantic and



roughneck roles he played a society gangster in *Quick Millions* (above) with George Raft. By 1933 the Tracys were well established in Hollywood's polo playing set. His wife



BOXING WITH GABLE in *San Francisco* (1936), Tracy played the role of a priest trying to convert his adversary,

a notorious cafe owner. He and Gable appeared together in two more films, *Test Pilot* (1938) and *Boom Town* (1940).



AT THE PEAK in Hollywood, Tracy won second Oscar in 1939 for his sensitive portrayal of Father Edward J. Flanagan in *Boys Town* (above left). The following year he



received an honorary doctorate of dramatic art from his alma mater, Ripon College in Wisconsin, which he entered in 1920 with plans to become a doctor and left without

CONVICT TO CONTENTED GRANDPA



Louise (middle picture) was a former actress. *Fury* (1936), his first dramatic hit, revealed Tracy, avenging nemesis to a lynch mob (second picture from right, above), as a top

craftsman. He was named No. 1 U.S. box-office attraction in a 1938 poll when he was photographed with boyhood friend Pat O'Brien and Hollywood friend Bing Crosby.



SINGING TO FREDDY in *Captains Courageous* (1937), he plays Portuguese fisherman who befriends poor little

rich boy Bartholomew. Scared of curling hair and taking on accent for the role, he won his first Oscar in it (1938).



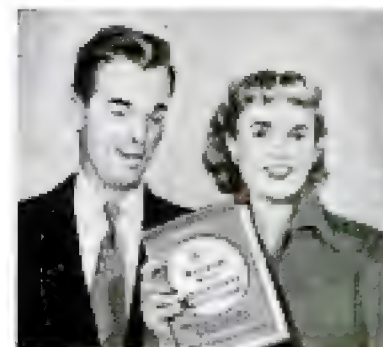
graduating for a stage career. Two children, Susan and John, now 22 and 30, posed for picture (center) with father in 1939. With President Truman, graying Tracy opened

Red Cross fund drive in Washington in 1951. The same year, in the role of an agonized but dotting grandfather, he captivated audiences of all ages in *Father's Little Dividend*.

CONTINUED ON NEXT PAGE

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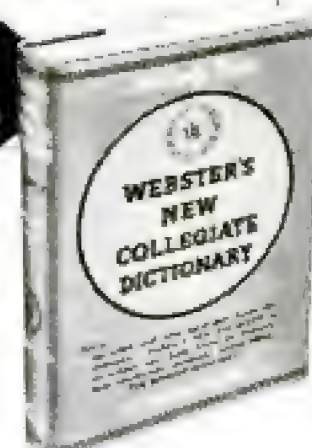
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get
**FAST
RELIEF**
WITH



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thousands of
physicians and dentists recommend
Here's Why... Anacin is like a doctor's
prescription. That is, Anacin contains not
just one but a combination of medically
proved active ingredients. No other prod-
uct gives faster, longer-lasting relief from
pain of headache, neuralgia, neuritis
than Anacin tablets. Buy Anacin® today!



INGROWN NAIL

Hurting You?

**Immediate
Relief!**

A few drops of OUTGRO® bring blessed relief from
tormenting pain of ingrown nail. OUTGRO tough-
ens the skin underneath the nail, allows the nail to
be cut and thus prevents further pain and discom-
fort. OUTGRO is available at all drug counters.



No Driving Strain! No Tension!

You're riding on Air Suspension

GREYHOUND SCENICRUISER & HIGHWAY TRAVELER



Hundreds of these sensational coaches,
with warm-air conditioning, now give
you world's smoothest ride!

FREE! COLOR MAP OF AMERICA

Mail to Greyhound Tour Dept., 71 W. Lake, Chi-
cago, Ill. for color map—with tour information.

Name _____

Address _____

City & State _____

Send me details on a tour to: _____

L-1-55

GREYHOUND

TRACY CONTINUED



WITH MADGE EVANS he played J.
Aubrey Piper in *The Show-Off* (1934).



WITH MYRNA LOY in *Whipsaw*
(1935) he was G-man trapping his girl.



WITH SYLVIA SIDNEY in *Fury*
(1936) he fought would-be lynchers.



WITH JOAN CRAWFORD he was a
tugboat tycoon in *Mannequin* (1938).



WITH HEDY LAMARR in *I Take
This Woman* (1940) he played a doctor.



WITH CLAUDETTE COLBERT he
was oil tycoon in *Boom Town* (1940).

'UNROMANTIC TYPE' WON FILMLAND'S LOVELIEST



WITH JEAN HARLOW he played in *Riffraff* (1936). Tracy kept saying he
was "unromantic type" and tried unsuccessfully to avoid "great lover" roles.



WITH KATHARINE HEPBURN, *Woman of the Year* (1942) began screen
tieup continuing in *Without Love*, *Sea of Grass*, *Adam's Rib*, *Pat and Mike*.



The Golden Touch of Hospitality

IN a smooth, golden dry martini — or in a refreshing Seagram Seabreeze (*the best of all gin and tonics*), observe how Seagram's Gin contributes its Golden Touch of Hospitality to fine food and pleasant surroundings. For Seagram's Gin is no ordinary gin. It is a very special gin, made in a very special way. The same unique process which *naturally* mellows Seagram's Gin to its subtle shade of gold, imparts to it a delightful satin-smoothness and appetizing dryness. For gin drinks of golden perfection . . . make them with Seagram's Golden Gin.



A DISTINGUISHED PRODUCT
FROM THE HOUSE OF SEAGRAM



SEAGRAM DISTILLERS COMPANY, NEW YORK CITY. 90 PROOF, DISTILLED DRY GIN, DISTILLED FROM AMERICAN GRAIN



For easy days...

Perfect Rice Without Cooking!

1. It's prepared instantly. Just add Minute Rice to boiling water!
2. It's trouble-free. No washing! No boiling! No draining! No sticky pans!
3. It's foolproof. White, fluffy delicious rice—perfect every time!
4. It's just plain good eating—the easiest way to round out a well-balanced meal!

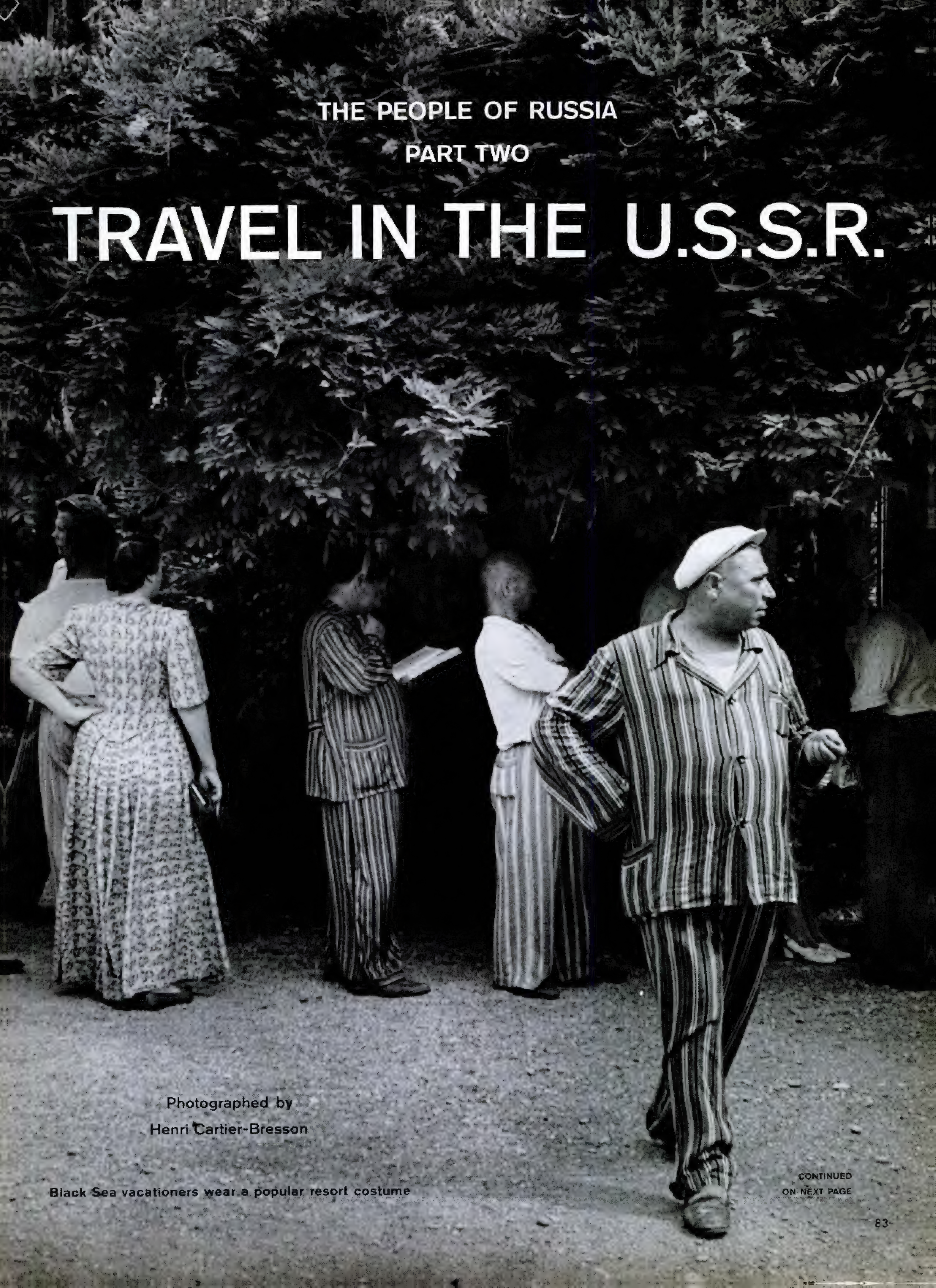
Product of General Foods



THE PEOPLE OF RUSSIA

PART TWO

TRAVEL IN THE U.S.S.R.



Photographed by
Henri Cartier-Bresson

Black Sea vacationers wear a popular resort costume

CONTINUED
ON NEXT PAGE



RESTING IN THE SHADE, chess players, chatting couples and a paunchy fisherman sit in pavilion at a riverside

resort. The large sign cautions swimmers to obey safety regulations, smaller one warns against littering beach.

JOURNEY TO THE SOUTH WHERE THE PAJAMA IS HIGH STYLE

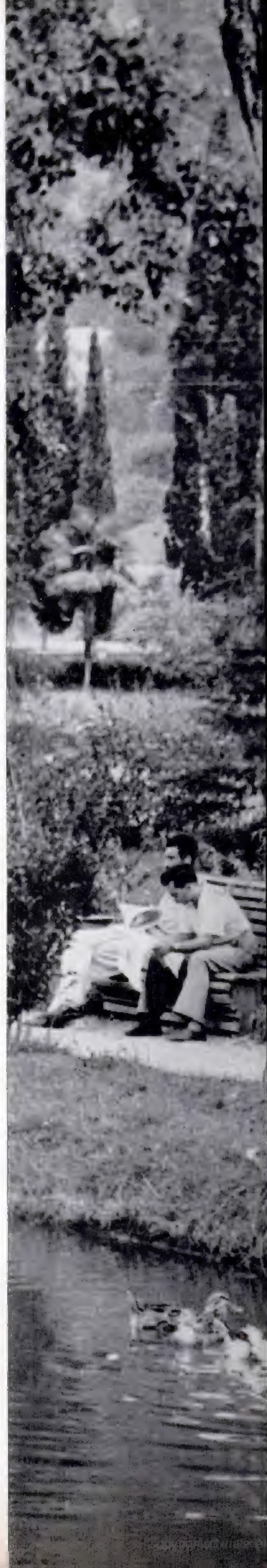


When he received a visa for the Soviet Union last year, the noted French photographer Henri Cartier-Bresson seized the opportunity to make the most revelatory record of the Russian people taken since the cold war set in. The first instalment of his pictures, which dealt with life in Moscow, appeared in *LIFE*'s Jan. 17 issue. Now *LIFE* publishes the second and last instalment of his photographs taken on a 9,300-mile journey through the U.S.S.R.

South from Moscow to Georgia, Cartier-Bresson traveled with the Soviet upper class. He shared Russia's first air-conditioned railroad car with two generals and their families, en route to the Black Sea on a holiday, and two engineers sent along to watch the air-conditioning unit. In and around Tbilisi, capital of Georgia and scene of Stalin's earlier exploits, Cartier-Bresson saw plainer people: shoppers spooning yoghurt, mountaineers repairing roads, priests preparing for a ceremony. On the easternmost leg of his trip he photographed the Oriental Uzbeks (pp. 88-91).

Although the Russian riddle remains unanswered by Cartier-Bresson's journey, it did produce one fascinating note on Russian high style: pajamas for travel and resort wear. The style caught on when the Soviets in 1935 sold the Manchurian railroad to imperial Japan and Japan paid for it partly in textiles. These were turned into pajamas and the people loved them. His guide, Cartier-Bresson found, was saving up for the day when he too could buy a pair.

← **AT TRAIN STOP MAN IGNORES GIRLS SELLING FOOD**





STOPPING OFF, travelers cluster on the platform during long wait at station on the way to Tbilisi.



WEIGHING IN, big woman mounts the scales at beach as attendant (*right*) begins to balance them.



LOOKING AROUND, a new arrival in prescribed resort wear takes first stroll along Sukhumi beach.

← ON A BANK VACATIONER IDLY FEEDS THE DUCKS

A WESTERN SIGHTSEER'S VIEW



GRIZZLED MOUNTAINEERS in sheepskin hats work on a section of the Georgian Military Road.



SCHOOLBOY is firmly led home from village school playground by mother who carries son's briefcase.



AT AN OUTDOOR BANQUET GIVEN FOR TRAVELING PHOTOGRAPHER CARTIER-BRESSON ON A



BLISSFUL BEACHGOER smiles at girl who protects her back from sunburn with a black umbrella.

The couple is vacationing at Sukhumi beach, a favorite resort on southeastern coast of the Black Sea.

OF PLAIN GEORGIANS



GEORGIAN COLLECTIVE FARM, FARM BOSS (LEFT) PROPOSES A TOAST

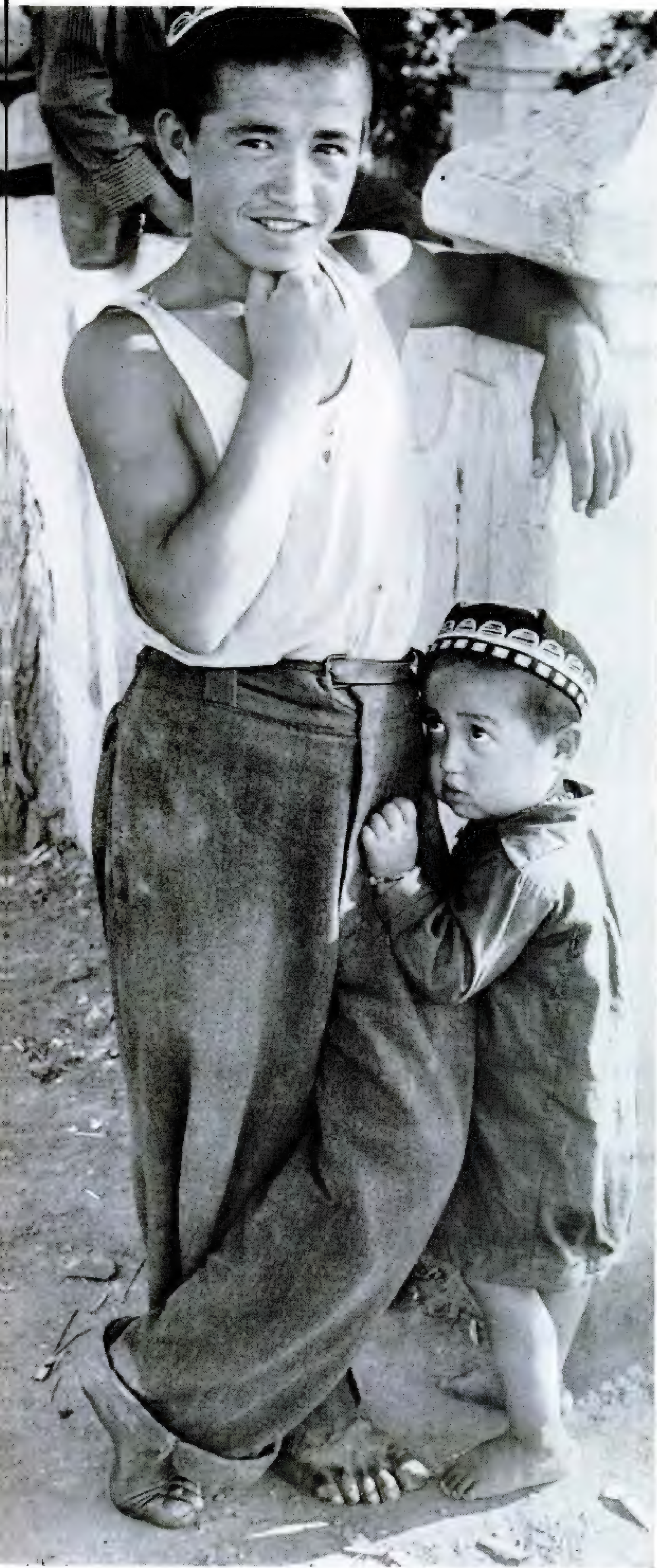


ENGROSSED LISTENER gets an earful from his finger-wagging friend at a busy street corner in the commercial district of Georgia's capital city, Tbilisi.



POLISHED CANDELABRAS for Orthodox ceremony are inspected by priests at Mtskheta, the ancient capital of Georgia. Old cathedral is in background.

AT YOGHURT STAND FATHER TELLS SHY SON TO LOOK AT CAMERA →



BAREFOOT BOYS wearing the traditional *doppe* caps linger by the white-washed gate of a roadside teahouse. The tyke also wears necklace and a bracelet.



BLACK-TRESSED GIRLS, their long braids tied at ends with bits of cotton, sit quietly waiting for their parents to finish shopping in a market near Fergana.



CANDY COUNTER in Margelan market place attracts a crowd of eager youngsters who carefully consider their small purchases and happily reach for them.



MOSLEMS IN THE MELTING POT

The seven million Moslem Uzbeks of Soviet Central Asia, who received their religion from scimitar-swinging Arabs and their name from the Mongol chieftain Uzbek Khan, are the largest non-Slavic minority in the U.S.S.R. True to tradition, Uzbek men cling to the embroidered *doppe* caps and many of them go robed in brightly striped silk *chopans* (next page). Girls wear their hair in beavies of long braids, usually binding the many braids into only two when they marry.

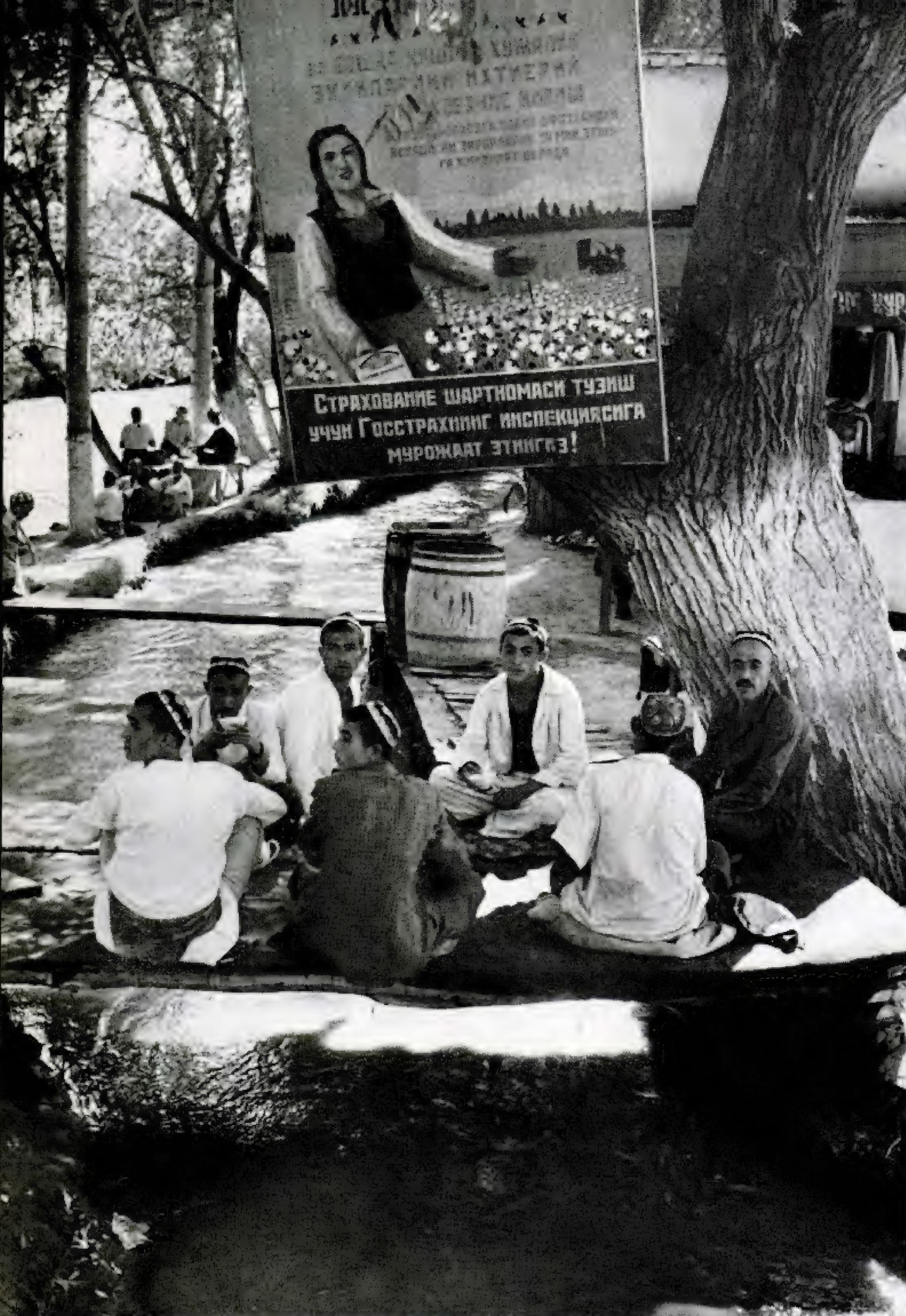
Although the Russians tolerate regional customs like folk dancing and a local-language theater, they have also made intensive efforts to obscure the individuality of the Uzbeks. They effectively re-routed the Uzbeks' national culture by compelling them to write in the Russian

instead of the Arabic alphabet. But although they wrecked more than 10,000 mosques and forbade Moslem observances for years, the Soviets have not substantially undermined Islam. To the dismay of authorities, some Uzbek women still go veiled, and Moslem practices of polygamy and child marriage persist.

In the economic field the Soviets have made more headway. The rich oases around Tashkent, Samarkand, Bukhara and Khiva, centers of irrigated cultivation from time immemorial, produce a wealth of melons, fruits and almonds and under Soviet stimulus have become the great cotton- and silk-growing regions of the U.S.S.R. More recently, Uzbekistan's Fergana Valley has begun to supply uranium ore for the Soviet atomic program.

MOSLEMS GATHER FOR OUTDOOR WORSHIP →





CHECKER PLAYERS enjoy game in Tashkent park under a portrait of late Soviet poet Mayakovsky.

TEA DRINKERS (left) keep cool on bridge over a shady stream. Sign advises farmers to insure crops.



WRESTLING FANS excitedly watch a match in Stalin Park in Tashkent. The villagers sitting in front row wear the long striped silk coats called *chopans*.



UNVEILED WOMAN throws back her covering to discuss grain purchase with her husband (left). Flower in the husband's *doppe* is customary among Uzbeks.





DIRTY WORK AT THE STABLES can be perpetrated, as in this drawing, by furtive characters who slip into a horse's stall with a hypodermic needle to "hop"

him into a winning performance. Despite the publicity about eliminating this evil, the accompanying article tells how doping can still take place at U.S. tracks.

HORSE DOPING, STILL A BLOT ON RACING

**An expert shows how new drugs defy detection,
making a farce out of the tests used at tracks**

by **DR. JOHN McA. KATER**

Former chief scientist for the Thoroughbred Racing Protective Bureau

IN the spring of 1947 a race horse named Sky Skipper was shipped from Florida to Suffolk Downs in Massachusetts. This was routine procedure; the horses always move north in the spring. But Sky Skipper was an exceptional and dangerous horse, about to make some unhappy history, for in its blood stream it carried the virus that causes the dread, incurable animal disease known as swamp fever.

Soon the fever flared up. Sky Skipper's body wasted away and its hind legs grew stiff and useless. Eventually the poor animal, its kidneys, liver and blood stream ravaged by the disease, sank dead. It was the first time that swamp fever, which apparently got its name from the mosquito-ridden marshes of the South, had ever killed a race horse in New England.

It was by no means the last time. Other horses fell mysteriously ill, grew hot with fever, weakened and died. Then another case popped up, and another. By the time New England racing had moved to Rockingham Park (New Hampshire) in midsummer, there was a full-fledged epizootic (the word for the animal kingdom equivalent of a human epidemic). There had never been anything like it in the history of racing. Owners of thoroughbreds all over the nation grew frightened. The state veterinarian clamped a quarantine on Rockingham Park: no horse could be shipped from there to another track. All horses on the grounds were watched day and night. As soon as one of them showed signs of disease, it was moved to an isolated pesthouse made of circus tents, or was immediately destroyed. Every day the entire stable area was sprayed with DDT until it seemed to be blanketed by fog.

This was the great swamp fever epidemic of 1947 which, readers of the sports pages will perhaps remember, killed about 80 horses. To me it has always been a fascinating mystery—and one which, if properly interpreted, may tell us a great deal about horse racing's best-kept secret. Let us speculate for a moment about the strange epidemic. Why did one infected horse so quickly infect nearly a hundred others?

Swamp fever always exists in the South. Especially among farm mules in the marshlands of Florida, Louisiana and Mississippi, it is a commonplace. But the disease never reaches epidemic proportions. A case will crop up in one county, then weeks later another case in another county. Much like malaria in human beings, swamp fever is ordinarily transmitted from blood stream to blood stream, as by a mosquito or horsefly. Experiments have shown that it is also sometimes transmitted through the mucous membranes, as when horses drink from the same pail. But all the known methods seem to be anything but efficient at transmitting it, for even in the worst mosquito country the disease travels slowly and sporadically.

Could something have been helping nature along a little at the New England race tracks?

For a clue, let us examine the roster of the horses stricken at Rockingham Park. We come immediately to a most peculiar fact. Geldings seemed to be especially vulnerable. Nearly one gelding out of every three came down with the

disease. But among ungelded colts and horses, the proportion was only one out of eight. Why? To my mind there is just one logical explanation: because the geldings were being doped more than the others, and the disease was at least in part spread by unsterilized doping needles.

It is customary in racing to geld a good many male horses to make them more tractable and easier to handle. But gelding them also weakens their spirit. In 1947 a much publicized drug called testosterone, the male hormone, was available to trainers looking for a way to put more spirit into geldings and thus make them win. As a physiologist I doubt that it would actually help a gelding run a better race, but the swamp fever epidemic indicates, I am convinced, that a lot of racing people felt otherwise. They must have figured that a shot of testosterone administered with a hypodermic needle would impart to their geldings the fire of the stallion—and a man furtively doping a horse would probably not bother to sterilize his needle.

Some of the horses destroyed in the swamp fever epidemic were doubtless infected by natural means, but many more, I am sure, were infected by the doper's needle.

The people who control racing would have us believe that the use of testosterone, doping and all other forms of dishonesty are a thing of the past; they advertise widely that organized racing protects the public with the saliva-urine tests for doped horses and polices itself with its own staff of experts and sleuths. In 1942 most of the major tracks joined in forming the Thoroughbred Racing Associations of the United States, Inc. and in 1946 this organization set up an anticrime outfit known as the Thoroughbred Racing Protective Bureau. The proudest moment of TRPB comes when its officials announce that doping cases have dropped steadily since TRPB went to work.

As a former employe of TRPB, I view the figures with skepticism. When the swamp fever epidemic occurred, I was the newly appointed head of TRPB's science section, a post which I held until I resigned in disgust at the end of 1953. The swamp fever epidemic opened my eyes to the doping menace and I spent most of my time studying it for the next seven years. I can flatly state that it is still easy to dope a horse and get away with it—the saliva-urine test and TRPB notwithstanding.

In the same year of testosterone and the swamp fever epidemic, I

discovered from a little study I initiated in the science section of TRPB how popular Benzedrine had become among the dope experts. It was my thought that one way of getting at the facts about doping would be to trace the sales of dope. Accordingly we enlisted the cooperation of some of the drug manufacturers, who gave us lists of their customers for various drugs that could be used to hop horses. Sales information supplied to me by the Pitman-Moore Company of Indianapolis, which was manufacturing an amphetamine sulfate solution under the trade name of Amfetasul, was perhaps the most revealing. Bearing in mind that about 3 cc. of Amfetasul would be the dose for "hopping" a single horse, note the following sales:



PESTHOUSE TENT isolated horses sick with swamp fever during 1947 epidemic, which author states was spread in part by dirty doping needles.



NEW MUM MIST PROTECTS EVEN THE 2 IN 5 WHO PERSPIRE FREELY

*Here's deodorant protection
you never thought possible!*

New Mum Mist spray deodorant stops perspiration instantly and for hours. Contains miracle hexachlorophene to prevent odor all day long—even if you are one of the 2 in 5 who perspire freely.

No more messy running or dripping!

Mum Mist sprays on, stays on. It dries fast—won't run, won't drip. Completely safe for normal skin—won't damage delicate fabrics. For protection that's fast, protection that lasts—get new Mum Mist!

At all toiletries counters **59c**



with hexachlorophene

A PRODUCT OF BRISTOL-MYERS

The Author

John McAllister Kater, Ph.D., formerly held the chair of physiology at Fordham University. Coming from a family that raced trotting horses for many years, he was happy to accept TRPB's offer to head its new science section, which he did from its inception in 1946 until he resigned at end of 1953 for the reasons he explains in his article.



HORSE DOPING CONTINUED

To Dr. A., a veterinarian in Arcadia, Calif. (home of Santa Anita Park), two 30-cc. vials in April of 1947, six more in May, two more the next January—all in all, enough Amfetasul to hop 100 horses.

To Dr. B., a veterinarian in New Orleans (home of Fair Grounds), two 30-cc. vials in November of 1947 and six more in December. Purchased during the Fair Grounds racing season and enough to hop 80 horses.

To Dr. C., a veterinarian in San Diego, Calif. (near the booming Mexican track called Agua Caliente), six 30-cc. vials in February of 1948 and four more in April. Enough to hop 100 horses, purchased inside of three months.

To Dr. D., a West Coast veterinarian who had shipments made to him at Agua Caliente and at San Francisco (home of Bay Meadows and Golden Gate Fields), a dozen 30-cc. vials on May 6, 1948; six more on May 13; six more on June 2. This was enough Amfetasul to hop 240 horses. In addition Dr. D. ordered a dozen more bottles, enough for 120 more horses, but never picked this shipment up.

Adding up the figures, it develops that these four veterinarians, in a period of only a few months and in dealings with only a single manufacturer, bought enough Amfetasul to hop 520 horses.

Of course the veterinarians might have wanted the drugs for strictly legitimate purposes; a veterinarian might want to keep a bottle or two of Amfetasul on his shelf for its great value in restoring an animal that had gone into a state of collapse, and some veterinarians use it in treating certain nervous disorders. But any purchase of more than a bottle or two would certainly seem quite mysterious.

Yet how can a drug company decide that a customer plans to use its product illicitly and therefore cut him off? In all the above cases, the company decided that the amounts bought might possibly have a legitimate purpose—or at least that the company had no legal grounds for refusing the orders. One executive did tell me, however, that the company had received such a large order from a Florida veterinarian for Amfetasul that it was turned down. He did not remember the amount but it must have been staggering.

In that same period, around 1947 and 1948, my science division of TRPB caught on to another popular drug for horse doping. A TRPB agent on the West Coast, growing suspicious of one of the leading trainers out there, managed to get hold of a mysterious bottle of medicine the trainer kept around. We analyzed it and found that it was an oil solution of adrenaline, one of the most powerful of all stimulants. No wonder the trainer was so successful!

But how can anybody get away with doping a horse in these days of the revolutionary, marvelous saliva and urine tests? To understand this we need to recall the history of the saliva test.

In 1933 U.S. horse racing suffered its greatest blow. For a year Commissioner Harry Anslinger of the Federal Bureau of Narcotics had had his agents secretly watching the strange goings on at race track stables. Now, in one sudden and paralyzing blow, he struck. Stating that he had evidence of 200 separate dopings in that period, he arrested owners, trainers and stablehands right and left. All of them were accused of possessing and using heroin and cocaine in direct violation of the federal laws.

It was a dreadful black eye for the sport. Doping had to be stopped—or at least the public had to be convinced that it was stopped. The method chosen was the saliva test, borrowed from France. A swabbing of saliva was taken from the mouth of every winner, or at least of enough winners to serve as a threat. The samples were tested in a laboratory for dope.

Later a great improvement was announced. In addition to the saliva test, the tracks began analyzing a urine sample from each

CONTINUED ON PAGE 97



Magnified 25 times: the jeweled-lever escapement of a fine Swiss watch

THE MYSTERY OF THE HIDDEN JEWELS

MOST PEOPLE will tell you that a watch with a jeweled-lever movement is the only kind of good watch to buy. But there's more to watch jewels than meets the eye.

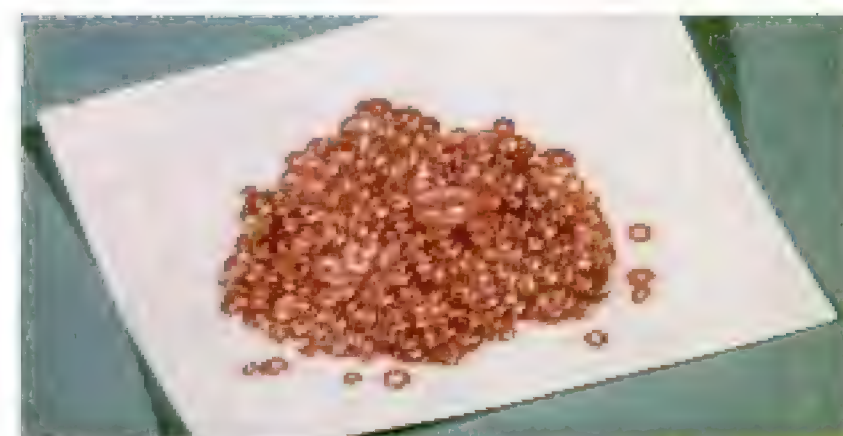
The value of the jewels in a fine Swiss jeweled-lever movement is measured not by carats—but by craftsmanship. Consider that the jewels in the lever *alone* tick against the escape wheel 432,000 times a day!

In the hands of skilled Swiss craftsmen, the jewels are faceted, polished and set with

uncanny accuracy. That's what makes them "precious": the knowledge that is Switzerland's specialty, passed along from the day of the invention of jewels as watch bearings by the Swiss geometer Nicholas Fatio in 1704.

Be sure the jewels in the watch you buy are there for function—not for fun. And the way to *know* is to ask your jeweler. *For the gifts you'll give with pride, let your jeweler be your guide.*

The Watchmakers of Switzerland



Jewels in a fine Swiss watch look like these . . .

They are usually man-made rubies, more perfect for their purpose than nature's own. Like the jeweled-lever itself, they are precision-engineered, making it easy to service any fine Swiss watch.

Time is the Art of the Swiss



BEGINNING IN NEXT WEEK'S **LIFE**

THE WORLD'S GREAT RELIGIONS



MAN sees God in many guises and approaches Him in many ways. But whether he worships alone on a desert or in whole nations with the common homage of an organized religion, the key to his behavior lies in his spiritual beliefs. Though religion is only one of the factors that govern the conduct of man, an understanding of how he behaves must begin with an understanding of the traditions and taboos he respects and the ethics he lives by.

To Americans, confronted with the need for dealing with peoples whose beliefs and behavior seem unfamiliar and bizarre, the need now for understanding the great religions of the world is urgent.

Before they can know India, Americans must grasp the subtle and complex teachings of Hinduism. To get at the roots of the Chinese character, Americans must comprehend centuries of Confucian and Taoist tradition. In the troubled lands of the Middle East, Americans must understand the intensity of Islam's beliefs and the pride of Judaism in the grandeur of its thought.

To help provide this knowledge, **LIFE** next week will begin a new series of six illustrated essays on "The World's Great Religions." The series starts with Hinduism, which has been called the mother of all religion. The world's most elaborate faith, it binds the diverse people of India into a nation. In 18 pages of full color in **LIFE** you will observe firsthand why the Hindus have been called a "God-intoxicated" people who see God in man and beast, stick and stone, fire and water. Here perhaps you will realize for the first time the spiritual significance of such customs as the practice of bowing to cows, monkeys scurrying in sacred temples; the system of caste and the mystical beauty of the death pilgrimage to Benares, by the waters of the holy Ganges.

Strange to us of the Western world, these beliefs are seated in more than 4,000 years of philosophical thought and tradition. In thinking about God as long as any other people on earth, the Hindus have evolved a profound edifice of thought, truly one of the World's Great Religions.

ANDREW HEISKELL, *Publisher*

*In saris newly dyed for a feast day
Hindu women leave a temple.*



TAKING SALIVA SAMPLE, a veterinarian swabs horse's mouth with cotton while assistant holds tray for drippings. Horse won recently at Pimlico.

HORSE DOPING CONTINUED

winner. Since the late '30s at a few tracks and since the '40s at most of them, both tests have been used. A few specimens have showed up positive and the trainers have been promptly suspended. But mostly the tests have been used by racing to advertise how free it now is from the doping evil.

The facts are quite otherwise. Any smart operator can get around the saliva and urine tests—and the TRPB knows it because I kept saying so inside TRPB for years. The tests never were a real safeguard against doping and they still are not as of this day. The original saliva test, with the specimen crystallized and examined by microscope, was more or less specifically intended for three drugs: morphine, heroin and strychnine. The cheaters blithely began shooting their horses full of Benzedrine, which never shows up in the saliva, at least in any detectable amount, if injected with needle.

The introduction of the urine test was a great blow to the Benzedrine cheaters. Benzedrine is excreted by the kidneys and if the specimen is properly examined with an instrument called a spectrophotometer the drug can be detected. But right here comes a classic test. The spectrophotometer test is so simple and cheap to use, compared to the more time-consuming microscopic examination, that some of the nation's racing laboratories adopted it as their chief test, abandoning microscopic examinations except to confirm spectrophotometer findings. This went on for years. And during this period crooked trainers were free to go right back to the days before the 1933 raids, because the tests as then conducted were ineffective at detecting heroin or morphine.

Today most tracks use both saliva and urine tests and use—or say they use—both spectrophotometer and microscopic analysis. But there are at least a dozen effective drugs for hopping horses which cannot possibly be detected even by the present tests. Either the drugs never get into the horse's saliva or urine, or once there they are so elusive as to escape detection by the most painstaking analyst. Anybody who knows the right drugs can hop as many horses as he wants to, at any track in the country, and never be caught at it. I can only assume that dozens or perhaps hundreds of people in racing do know about these drugs and that they are in constant use day in and day out.

So varied are the methods of hopping a horse without running the slightest risk of detection from the saliva and urine tests that a guide for their use can be drawn up according to the temperament of the animal to be stimulated. To be sure, I cannot pretend that the following guide is foolproof, because the effects of any dope vary from horse to horse and can never be completely predicted. (Crooked trainers always have to experiment a little to see whether and how much a given drug will help their animals.) But in general these methods seem to be standard:

THE TIMID HORSE. This type is simply unwilling or afraid to do his best in a race. You can train him to the very peak of condition, yet when the starting gate opens he insists on loafing. He doesn't care who wins. You know he can run because you have

CONTINUED ON NEXT PAGE



When childhood lights a candle
in your heart . . .

Quick, your camera...

and a Sylvania Flashbulb

Keep the memories bright with the flashbulbs that make the simplest cameras up to 3 times faster . . . so sure-firing they outsell all other flashbulbs combined.

Faster firing Sylvania Blue Dots give a quick even flash that prevents blurred snapshots—just the right amount of light, exactly where you want it. Crisp, clear snapshots every time!

Sylvania Blue Dots make the finest of flash pictures with the simplest of cameras. They make your camera a better camera, your pictures better pictures.

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Look for the Blue Dot
... it pays off in finer flash pictures

Keep your eye on

SYLVANIA®

fastest growing name in sight!



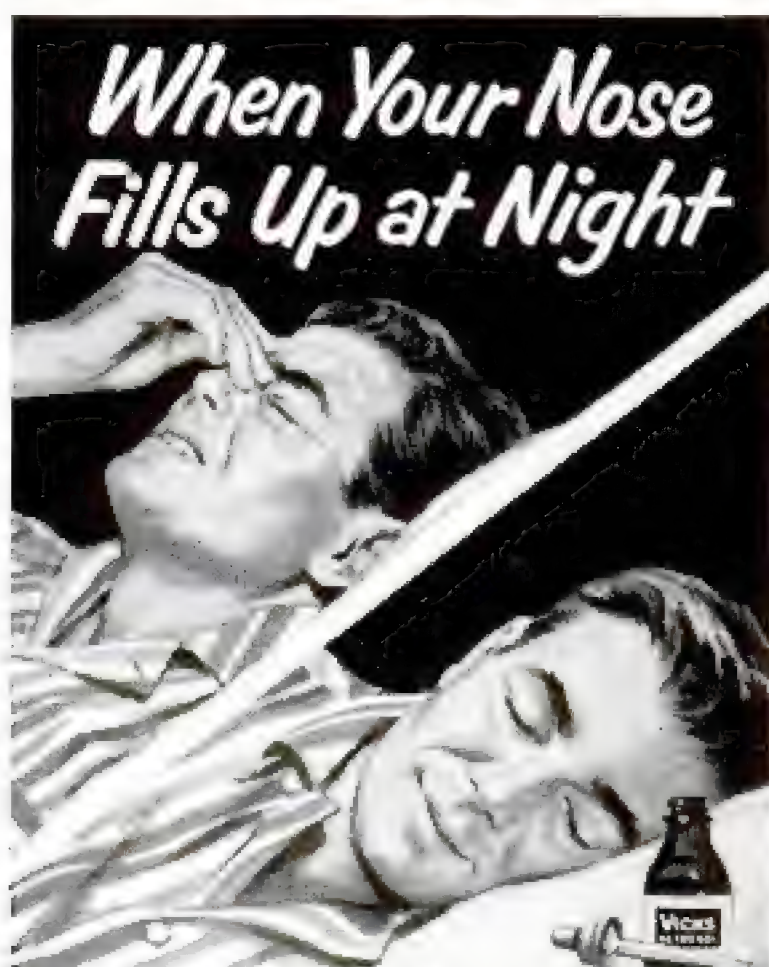
Wives: Make him a gift of this amazing new hair preparation that *ends* this problem!

Revolutionary new hair dressing *won't grease-stain your hat!*

AT LAST! A dressing that keeps hair *naturally* neat all day—and *no slicked-down look* . . . *no unsightly grease stains* to ruin hats, pillows, backs of chairs! It's new Beau Kreml! Amazing spreading action, too! Beau Kreml is easy to comb in, so easy to wash out. Rinses off comb in tap water! Get a long-lasting bottle—only 69¢.

**"Keeps hair
naturally controlled!"**

DANDRUFF? ITCHY SCALP? New anti-septic ingredients protect your health! Get regular **KREML HAIR TONIC!**



**Open Up Your Nose—
Breathe Again—**

Sleep Again!

Stop tossing and turning on those nights when a stuffed-up nose keeps you from falling asleep. Use Vicks Va-tro-nol Nose Drops! A few drops up each side of your nose, as directed in package, and . . . your nose opens in seconds! Use Vicks Va-tro-nol Nose Drops tonight! Breathe again! And so sleep again!

**VICKS VA-TRO-NOL
NOSE DROPS**



HORSE DOPING CONTINUED

seen him do it. Some of his morning workouts, with no other horses around him and nobody yelling from the grandstand, may indeed have been sensational. (Racing people have a name for these horses: "morning glories.") What he needs is something like the stimulation that can make a normally timid man, after two drinks at the corner saloon, believe he can lick anybody in the place. Racing people actually did use alcohol at one time, anywhere from a half pint to a quart of whisky fed to the horse before race time. But this can be detected by the paddock judge's nose. Heroin and morphine, which serve the same purpose, can be detected by the urine test. The trick now is to use one grain of apomorphine hydrochloride, injected under the skin of the horse 30 minutes to three quarters of an hour before post time.

Apomorphine has a startling effect. It seems to go right to the horse's head and fill him with the gay and giddy feeling that doctors call euphoria. He is suddenly intoxicated with his own power; he recognizes no obstacles; he feels no fatigue. Given a jolt of apomorphine, an otherwise timid horse might go out and win from the same field in which he was beaten 10, 15 or even 20 lengths in his previous race. Then next time, without the jolt, he would fade back into an also-ran, far in the ruck.

A few seasons ago there was a 2-year-old that won some big stakes and looked like a fine prospect for the following year's Kentucky Derby. A millionaire sportsman bought him for around \$100,000—and he never again ran a lick. I have always figured that this colt ran its good races under apomorphine.

Despite the urine test and the spectrophotometer, a crooked trainer would still have a pretty good chance of getting away with a shot of Benzedrine for this same type of animal. Benzedrine is excreted very slowly; it will not appear in the urine for quite some time after being administered and then will continue to be present for several days. Unless racing officials are careful to wait two hours and a quarter or more after the race before taking a sample—and most of them are not this careful—the test will prove completely negative for Benzedrine.

THE SLUGGISH HORSE. This type of animal refuses to work himself into shape. He cannot be trained to a keen edge unless you have infinite time and patience. Most of the time, like a lazy human being, he is simply in no shape to run his best race. For this animal, the best drug would usually be Metrazol, which seems to have a "normalizing" effect. Given to a keen, high-strung horse, Metrazol has little effect. Given to the sluggish horse, it lifts him temporarily to a peak of efficiency. The dose is 5 to 20 cc. of 10% Metrazol solution, injected no more than a half hour before the race.

THE FAST QUITTER. This is the animal with enough speed to get out in front but not enough stamina to stay there. He starts to flounder after three furlongs of a half mile and the rest of the field goes right past him. The oldest technique with this horse is to dose him with calcium gluconate in the standard solution which comes put up in 250 cc. and 500 cc. bottles, all prepared for attaching to a tube and needle. The intended use is for animals which have low blood calcium and need intravenous nourishment. In racing, the same intravenous feeding, applied through the jugular vein as close as possible to post time, supplies a heart stimulant and an extra source of gluconate which should make the fast quitter run a little farther. With this help he might go four or five furlongs before tiring and in a short race against the right class of horses the field would not have time to catch him.

One danger in using calcium gluconate preparations is that if some of them are injected to any extent into the neck muscles they are likely to cause an abscess which would be a dead giveaway to track officials.

Horsemen who fear they have "spilled" the calcium gluconate into a muscle will, if they have time, quickly hook a bottle of 10% injectible glucose to their tube and spread this around the area of the needle; the solution ordinarily prevents the abscess. If they have no time for this antidote, they simply ship the horse away from the track right after the race and give the abscess time to develop and heal in private down on the farm.

A more recent technique involves the new cortical hormones which are used in human medicine to combat Addison's Disease, rheumatism and arthritis. Massive doses of these hormones, given as a gradual buildup for perhaps a week before the race, have a beneficial effect on the delicate salt balance in the animal's body and thus help combat fatigue. Besides being valuable for improving the endurance of a fast quitter, they might help a horse that ordinarily can run a mile and a 16th to hold his speed for a mile

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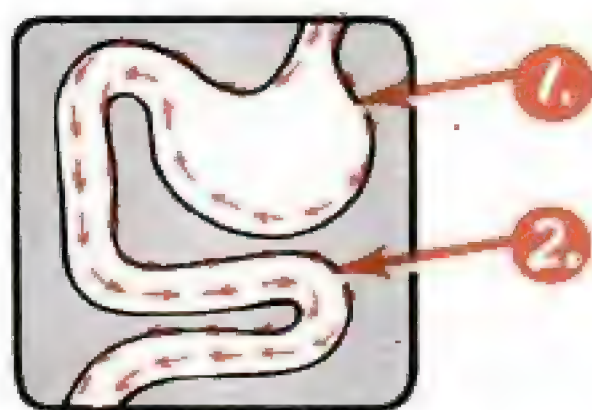
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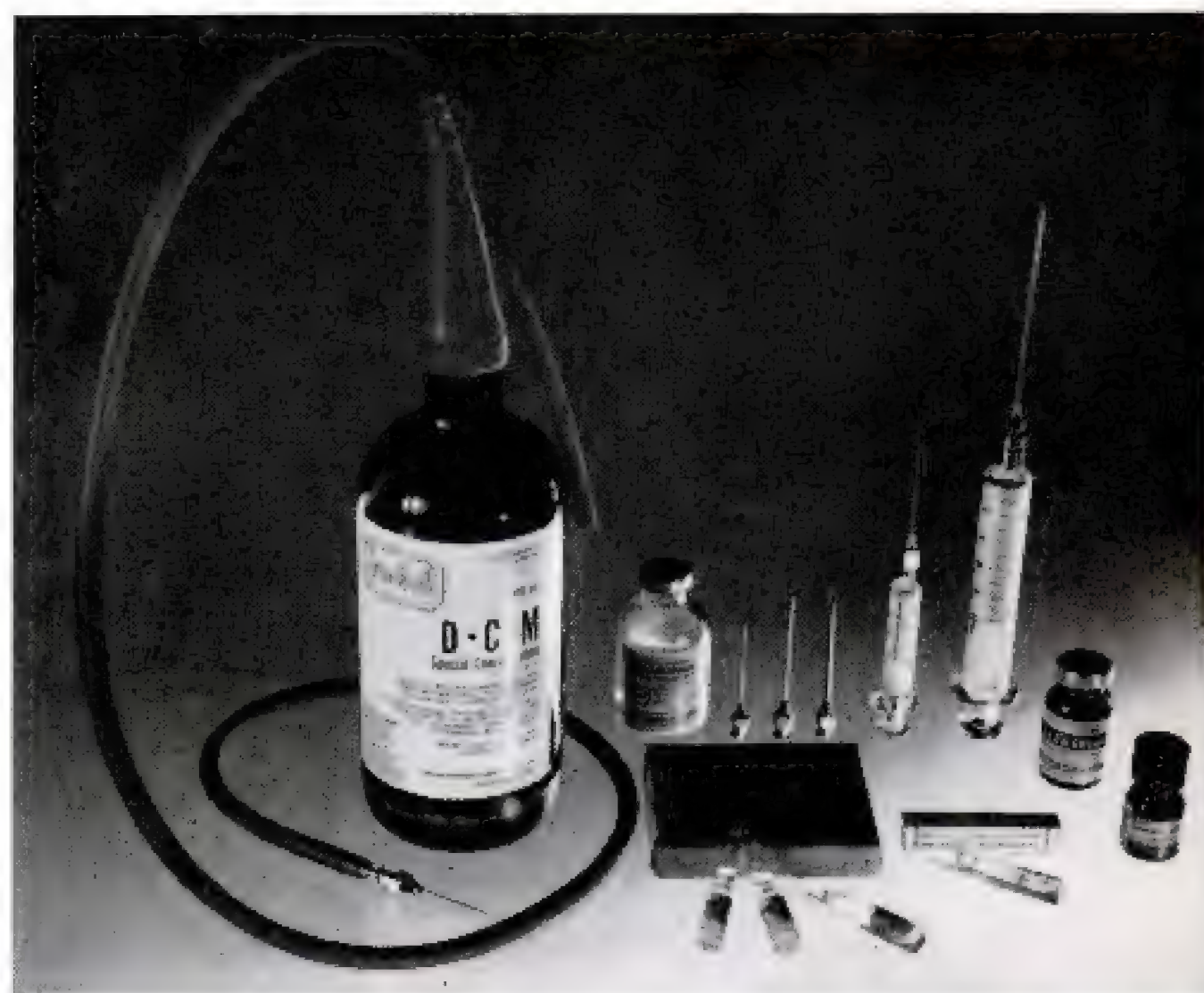
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TOOLS OF THE DOPER include: (at left) large bottle of D.C.M. calcium gluconate with hose and needle for gravity injection into jugular vein; (back row, from left) Amfetasul, three needles, syringe with needle for subcutaneous and intravenous injections, large needle and syringe for intramuscular use, bottle of cortical hormone (Eschatin); (front row, from left) box and ampules of Metrazol, an ampule of adrenaline in oil, small bottle of apomorphine.

HORSE DOPING CONTINUED

and a quarter or more. Their great disadvantage is that they require tremendous experience and skill for proper dosage; probably only the most expert veterinarians can administer them with success. While a great many trainers are using them, I suspect that most of the cortical hormones administered today do more harm than good—especially since they can cause sterility when used on fillies and mares.

The strange thing about cortical hormones is that, as in the case of testosterone, nobody in racing has ever flatly decided whether they fall into the category of doping or not. They are not a narcotic or a spectacular stimulant; in a way, their use is no more sinister than the daily addition of vitamins to the horse's diet. But on the other hand, they do represent a kind of tampering with a horse's normal performance and it might be a dangerous precedent to condone them. The people in charge of racing would rather ignore the subject—and are probably only too happy that the saliva-urine tests, by failing to detect the hormones, help them avoid a decision.

Besides drugs for specific purposes, crooked trainers like to have an all-purpose stand-by—a dope which, acting as a cardiac and respiratory stimulant, will improve the performance of most horses that are just not good enough to win without it. The most popular drug in this category still seems to be the one we found many years ago in the hands of the West Coast trainer, adrenaline in oil. Of all the things used to hop horses, this is perhaps the easiest to administer. The trainer simply injects 10 cc. of any 1-to-500 solution of adrenaline base at any time within 24 hours of the race. The drug, imprisoned in the oil, flows very slowly into the blood stream. But just before the race the trainer vigorously massages the area of the injection. This spreads the oil through a wide area of flesh; the release of the adrenaline into the blood stream is speeded and the horse gets a terrific jolt. When you see a trainer affectionately rubbing his animal's neck in the paddock, there is at least a possibility that sentiment has nothing whatever to do with the gesture; he may simply be about to steal a race via this ingenious form of doping.

Some trainers have doubtless caught on to an additional refinement. The adrenaline in oil can be administered about six hours before race time, then triggered, just before leaving for the paddock, by a second injection composed of one cc. of 5% Benzedrine solution. This amount of Benzedrine is too small to have any very noticeable effect of its own or to be detected in the urine test, but it has a powerful booster action on the work of the adrenaline. Adrenaline and Benzedrine combined have what pharmacologists call a synergistic effect, that is to say, the combined jolt is greater than the sum of the two taken separately.

Adrenaline, of course, is the natural hormone released by the adrenal glands in fright or anger; it is the hormone that makes it

CONTINUED ON PAGE 102



If it weren't for brand names

You'd have to be a
petroleum engineer
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Your car is one of the most expensive things you own. Bad motor oil could ruin it.

Yet you don't worry a bit about asking a filling station man you may never have even seen before to "add a quart of oil" to the motor.

How do you dare trust a stranger like that? How can you be so sure the oil he carries is good for your car? In fact, how can you ever feel sure about anything you buy?

Isn't it because you've learned the first rule of safe and sound buying:

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No matter what kind of product you're buying, you know you can always trust a good brand. You know the company stands behind it, ready to make good if you're not satisfied. And so, you know you are *right*.

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HORSE DOPING CONTINUED

possible for men and animals to perform unusual feats of strength under duress. The extra shot from the doper's needle, added to the increased flow from the horse's own adrenal glands in the excitement of the race and under the sting of the whip, makes the animal's heart work faster and his blood pressure shoot up.

Instead of adrenaline, some trainers use ephedrine, a frequent ingredient of nose drops, or Propadrine, a similar drug. Other possible substitutes are Epinine and Cobefrine, but these two would involve more danger of being caught. Although to my knowledge no racing laboratory is doing so, it is possible to find traces of them in urine samples by using the proper analytical techniques. Since there is no point in running even the slight risk that some laboratory might unexpectedly adopt these techniques, I doubt that these drugs are used very often.

What all this means is that the present saliva-urine tests are the merest window dressing. Nobody who wants to dope a horse need stand in fear of them. They serve no real purpose except to make the public think that racing has cleaned house. They do this at the expense, I am sure, of numerous trainers who are suspended because of faulty chemical analyses. Since there are so many ways of getting around the test, I can hardly believe that very many people around a race track would be so stupid as to use one of the detectable drugs. In four specific cases of suspension that I have studied—Trainer George Wynhoff in New Jersey, Trainers J. E. Stevens, A. E. Penney and Ross B. Covington in the state of Washington—I am convinced that the chemical evidence against these men was solely a matter of mistaken judgment. And I believe that some of the authorities in these cases would agree with me but were afraid to speak up in defense of the trainers.

Sweetness, light—and suspicion

WHO is to blame for the whole sham of dope-prevention in racing? It is certainly not the fault of the breeders of horses, who detest the very thought of filling a horse's blood with some foul dope that will help him make money for a crooked owner at the peril of his future or even his life. (All dopes are dangerous and are probably never or only very rarely used on really top horses.) It is not the fault of the many fine sportsmen who own and train horses and would themselves never descend to doping, which amounts to unfair competition against them in the struggle for purse money. It is not the fault of the track owners, who must naturally frown on any crookedness in racing as a threat to their investments. Indeed I am sure that the disclosures I have made here will be as great a shock to many track officials as to the public. The people I blame are the men who know but cover up: the front men of racing who have managed to make a fine living by persuading their employers that everything is sweetness and light.

For seven years I kept harping on one theme inside TRPB: something had to be done about the doping mess before it blew up or destroyed racing through the dry rot of suspicion. We had to start a research program, study the drugs, find better tests for them. We should try to develop some pre-race physical examination for horses, possibly utilizing blood pressure, blood sugar level and the findings of an electroencephalograph to detect doped horses before they ever reached the post. We had to quit pretending that we had licked the dope evil by suspending a few hapless trainers on the basis of doubtful and sometimes obviously distorted scientific evidence.

I wrote memo after memo warning about the dangers of the dope situation and suggesting specific methods of attacking it; I still have in my possession the first drafts of about 30 such documents written over the years and there were others besides. In addition I brought up the matter with the heads of TRPB in person whenever I had the opportunity. I got precisely nowhere.

Very early in my career at TRPB, after discovering that many saliva-urine tests at the time were being made by spectrophotometer only, I wanted to get out a letter of warning to all track presidents. I felt we must alert them immediately that this test would not be likely to detect morphine and heroin—and that the knowledge that it was being used exclusively would surely arouse the most heated kind of reaction from the Federal Narcotics Bureau. The letter never went out; no official TRPB warning was ever issued, and I was reduced to trying to persuade laboratory chemists one by one as I met them in the course of my duties.

Early in my career I had a strange experience with an advisory scientific committee which I set up to help TRPB with the difficult pharmacological and chemical problems involved in doping. At the time TRPB gave me every encouragement in enlisting the help of the most eminent authorities. I was delighted to obtain as

CONTINUED ON PAGE 104



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HORSE DOPING CONTINUED

members of the committee Maurice SeEVERS, professor of pharmacology at the University of Michigan; McKEEN CATTell, professor of pharmacology at the Cornell University Medical College; the late FRANK C. WHITMORE, head of the chemistry school at Pennsylvania State; LAWRENCE HALLETT, a distinguished research chemist for the General Aniline & Film Corp.; and B. H. WILLIER, chairman of the biology department at Johns Hopkins. They went to work with great enthusiasm and drew up plans for a research program which they felt could work out an adequate anti-drug program on an expenditure of only \$20,000 to \$25,000 a year.

But the committee proved a sore disappointment to TRPB. This was at the time when the racing world was being prodded by the competent and irreverent George Mahoney, who was then chairman of the Maryland State Racing Commission. Mahoney was rightly convinced that there was more doping going on in Maryland than was ever disclosed by the saliva tests, which at the time were being processed by the New York State Racing Commission Laboratory. His suspicions seemed to him to be thoroughly justified when he had some work horses doped with strychnine and other drugs, sent off saliva samples to New York and had the reports come back negative. (What happened was that the New York chemists, whose honesty is above suspicion, simply picked this moment to do what is entirely possible in the difficult world of chemical analysis of this type: *i.e.*, to make an honest miss.) So Mahoney insisted on setting up receiving barns, where the horses were guarded for several hours before a race, and instituted his own saliva test, in which an extract from the sample was injected into a mouse.

The scientific advisory committee's first job was to look into this mouse test. It was no doubt the fond hope of TRPB that the scientists would thoroughly discredit the test, and thus cast doubt on George Mahoney. And sure enough the committee did, for the mouse test was thoroughly inadequate. But at the same time the committee reported that the standard form of saliva test was also inadequate. So unwelcome was this finding that the report was never made public and after two meetings the committee was never called into session again. It simply died, a victim of its own conscientiousness.

The idea seemed to be that nobody connected with racing must ever let on that there was anything wrong with the saliva test. We could not admit that horses could be doped without anybody ever being the wiser. Otherwise the public would lose its faith in the myth that had been so carefully erected. The whole racing world would be thrown into turmoil. The owners of race tracks and the wealthy sportsmen in racing would be upset. A lot of pious apologists for the present state of racing might lose their jobs.

I love horses and I love horse racing; I think it could be the finest and most stirring sport of all. And nowhere else have I met so many real gentlemen as in racing. I clung for years to the hope that somehow my ideas, in which I had such faith, would prevail; it would be so much better if racing purged itself from the inside. But I don't believe in sweeping evil under the rug forever. Racing must get rid of the dope crooks if it is to survive.



MOST RECENT DOPING SUSPECT, ex-jockey Frank Truschka (*left*), is questioned by TRPB agent this month in Florida after being found with hypodermic needle in stall of favorite in a race scheduled 50 minutes later. Police said he admitted wanting to ensure a \$5,000 bet being placed on the horse.

You'll Get A Run For Your Money



On New Year's Day, LIFE presented \$100,000 to the United States Olympic Committee. It was your money. And you'll soon get a run for it. For the \$100,000—raised in a three month drive coordinated by LIFE and sparked by many civic organizations throughout the country—is about enough to train and transport a crack track and field team to Mexico City for the Olympic "warm-up", the Pan American Games in March.

It takes a lot of pennies, dimes and quarters to tally a hundred thousand dollars. So a great many thanks are in order; to the thousands of individuals who contributed and to many selfless groups like the Junior Chambers of Commerce. The "Jaycees" energized the drive by staging imaginative and enterprising promotions within the communities they serve, and were directly responsible for more than half the total money raised. The YMCA, The Boy Scouts, The Girl Scouts, the CYO and Jewish Youth Groups—all helped vastly and deserve thanks. This \$100,000 represents the first instalment on America's \$1.1 million Olympic Fund goal.

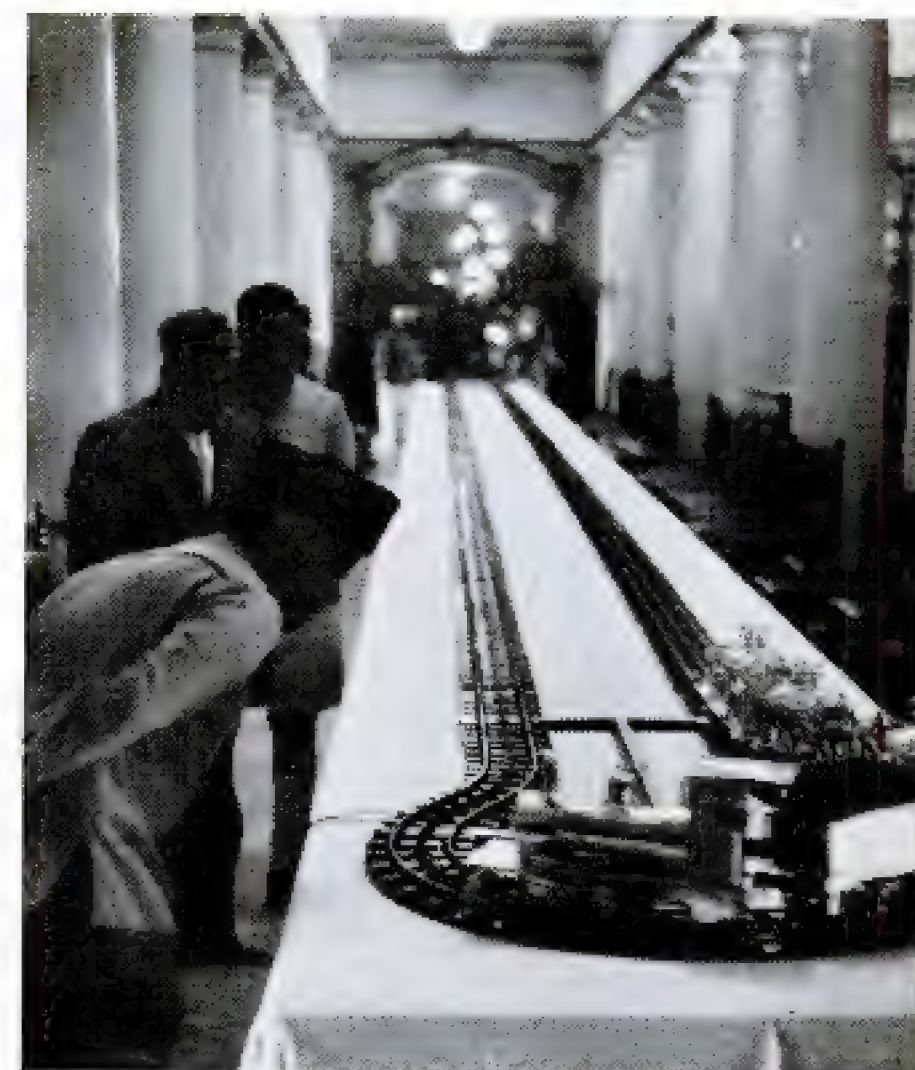
Off breezing, we're still a long way from the tape. The Olympic Committee still needs hundreds of thousands of dollars to take our championship teams to Italy and Australia for the 1956 Olympics. Support your Olympic Team Fund if you can—as much or as little as you choose. And remember, you'll get a run for your money.



Olympic Office

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Tito Takes In



TESTING TOY TRAIN, technicians get it ready for Tito's visit. It runs around the 75-foot table.



TRAIN-STOP FOR TITO amused the Yugoslav leader who helped himself to some candy. Train,

BEATERS ARMED WITH HOMEMADE GRENADES



PRINCELY SPLENDOR of palace envelops Tito and 250 guests awaiting after-dinner musical pro-

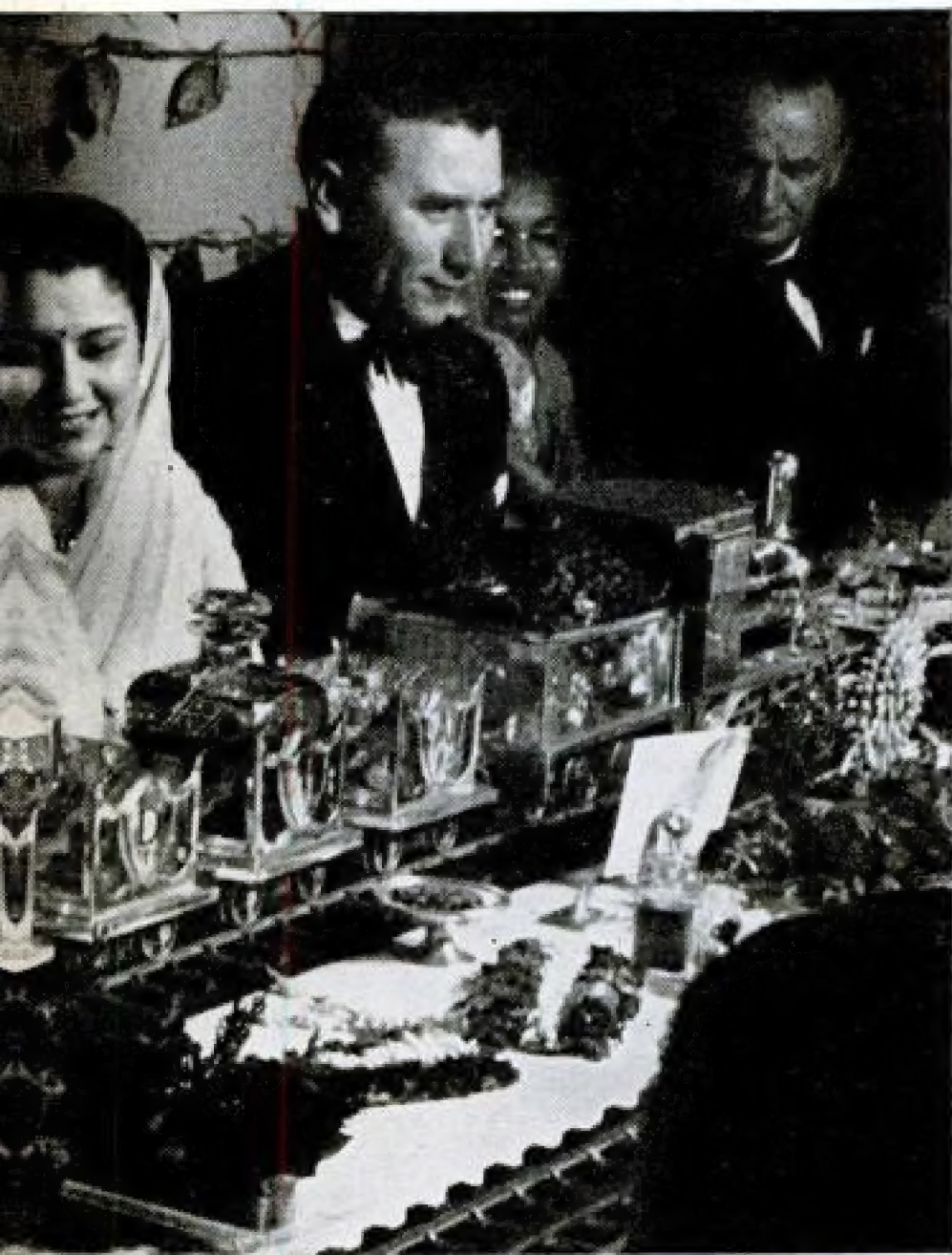
gram. On sofa next to Tito (*front right*) sits the maharani. Chandelier is said to be world's biggest.

A Tiger Hunt

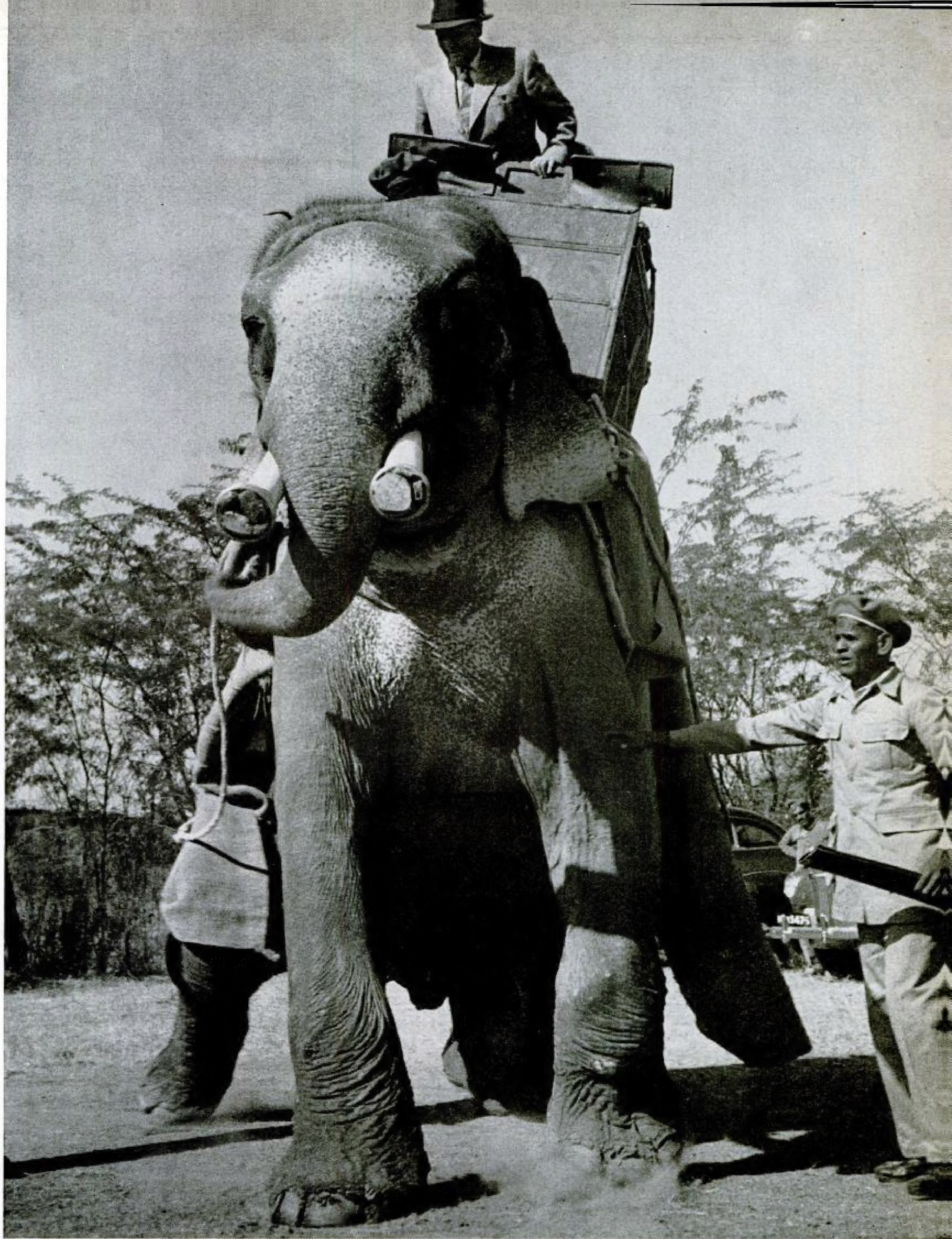
AFTER A FANCY FEAST HE SPARES THE BEAST

On a strenuous state visit to India, Marshal Tito of Yugoslavia took time off for a party at Gwalior, the former princedom famed for its tiger hunts. Preparations for him were equally elaborate in the banquet hall and in the bush. When the sumptuous welcoming feast was over, the maharajah pushed a button and a solid silver electric train delivered brandy, candy and cigars to the guest.

Next day came word that the tigers, lured close by with tethered water buffaloes, were ready to be hunted. Tito was whisked by Cadillac out to a concrete shooting platform. But before the first tiger appeared he spurned a gun and, lifting his cameras, announced apologetically, "I prefer to shoot with these."



which stops automatically when touched, was designed by maharajah's father and built in Britain.



HIGH RIDE is taken by Tito on elephant after tiring of the tigers. In all, Tito spent 18 days touring

India, issued a joint statement with Prime Minister Nehru on coexistence and then moved on to Burma.

CHASE TIGERS FROM JUNGLE ON HUNTING PRESERVE TO GIVE TITO A SHOT. AT RIGHT ONE OF THE BEASTS COMES INTO VIEW OF THE MAHARAJAH'S PARTY





ANGELIC GUARDIAN

His team was trailing Egypt's by one point in a Mediterranean Cup Soccer game in Athens when Greek Goalie Stathis Mandalozis saw the ball headed straight for the goal behind him. Giving his all, he made a mighty leap toward it. Just as Mandalozis

snapped the ball snugly into his arms, a photographer snapped his shutter, recording the desperate guardian of the goal afloat in the air and wearing the beatific look of an angel without wings. With such aerial heroics the Greeks managed a 1-1 tie.



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